

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING


FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER 12-4D-45 BTR			
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT			
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME			
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8164			
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL BHilgers@billbarrettcorp.com			
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1420H626281			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')			
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')			
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Uintah and Ouray			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>			
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE	2184 FSL 448 FWL		NWSW	4	4.0 S	5.0 W	U		
Top of Uppermost Producing Zone	1977 FSL 811 FWL		NWSW	4	4.0 S	5.0 W	U		
At Total Depth	1980 FSL 810 FWL		NWSW	4	4.0 S	5.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 810			23. NUMBER OF ACRES IN DRILLING UNIT 640			
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1875			26. PROPOSED DEPTH MD: 9409 TVD: 9385			
27. ELEVATION - GROUND LEVEL 5894			28. BOND NUMBER LPM8874725			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-180			

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	26	16	0 - 80	65.0	Unknown	8.8	Unknown	0	0.0	0.0
Surf	14.75	10.75	0 - 2600	45.5	J-55 ST&C	8.8	Halliburton Light , Type Unknown	660	3.16	11.0
							Halliburton Premium , Type Unknown	360	1.36	14.8
Prod	9.875	5.5	0 - 9409	17.0	P-110 LT&C	9.7	Unknown	1010	2.31	11.0
							Unknown	1200	1.42	13.5

ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Venessa Langmacher	TITLE Senior Permit Analyst	PHONE 303 312-8172
SIGNATURE	DATE 11/15/2011	EMAIL vlangmacher@billbarrettcorp.com
API NUMBER ASSIGNED 43013510630000	APPROVAL  Permit Manager	

RECEIVED: November 22, 2011

DRILLING PLAN

BILL BARRETT CORPORATION

12-4D-45 BTR Well Pad

NW SW, 2184' FSL and 448' FWL, Section 4, T4S - R5W, USB&M (surface hole)

NW SW, 1980' FSL and 810' FWL, Section 4, T4S - R5W, USB&M (bottom hole)

Duchesne County, UT

1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth – TVD</u>
Lower Green River*	5,076'	5,060'
Douglas Creek	5,922'	5,900'
Black Shale	6,834'	6,810'
Castle Peak	7,034'	7,010'
Uteland Butte	7,339'	7,315'
Wasatch*	7,579'	7,555'
TD	9,409'	9,385'

*PROSPECTIVE PAY

Members of the Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 5,800'

3. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 2,600'	No pressure control required
2,600' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

4. Casing Program

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
14 3/4"	Surface	2,600'	10-3/4"	45.5#	J or K 55	BT&C	New
9-7/8" & 8-3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New
NOTE: If necessary due to lost circulation, BBC would like to request the option to set 7-5/8", 33.70# P-110 LT&C to a depth of 7,555', then drill a 6-1/2" hole to TD and run 5-1/2" casing as a 2100' liner (200' liner lap).							

Bill Barrett Corporation
 Drilling Program
 #12-4D-45 BTR
 Duchesne County, Utah

5. Cementing Program

<u>Casing</u>	<u>Cement</u>
16" Conductor Casing	Grout
14-3/4" hole for 10-3/4" Surface Casing	<p><i>Lead</i> with approximately 660 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft³/sx) circulated to surface with 75% excess. Planned top of lead cement at surface.</p> <p><i>Tail</i> with approximately 360 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = 1.36 ft³/sx). Calculated hole volume with 75% excess. Planned top of tail cement at 2,100'.</p>
9-7/8 hole for 5 1/2" Production Casing May reduce hole size to 8-3/4" at 6000' if minimal hole problems.	<p><i>Lead</i> with approximately 1010 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft³/sx). Planned top of lead cement at 2,100'</p> <p><i>Tail</i> with approximately 1200 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft³/sx). Planned top of tail cement at 6,334'.</p>
<p>NOTE: If 7-5/8" casing is necessary, cement with Lead with approximately 700 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft³/sx). Tail with approximately 240 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft³/sx). Planned TOC surface. We will perform a FIT to 10.2 ppg after drilling 20' of new hole.</p> <p>The 5-1/2" liner would be cemented with 300 sx of Class G 50/50 Poz w/ 2% gel (14.2 ppg) with additives from TD to 200' above TOL.</p>	

6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 2,600'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2,600' – TD	8.6 – 9.7	42 – 52	20 cc or less	DAP Polymer Fluid System
<p>Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.</p>				

Bill Barrett Corporation
 Drilling Program
 #12-4D-45 BTR
 Duchesne County, Utah

7. Testing, Logging and Core Programs

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.
NOTE: If BBC pursues the "Alternate" program, a suite of the above logs will be run on both the intermediate and production hole sections.	

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4734 psi* and maximum anticipated surface pressure equals approximately 2672 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

**Maximum surface pressure = A – (0.22 x TD)

9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

11. Drilling Schedule

Location Construction: June 2012
 Spud: June 2012
 Duration: 15 days drilling time
 45 days completion time

PRESSURE CONTROL EQUIPMENT – Schematic Attached

A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes with one (1) remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Pressure gauge on choke manifold.
13. Fill-up line above the uppermost preventer.

B. Pressure Rating: 5,000 psi

C. Testing Procedure:

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

F. Miscellaneous Information:

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.



Bill Barrett Corporation

LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

AS OF: 2/18/2011

Well Name: 12-4D-45 BTR

Surface Hole Data:

Total Depth:	2,600'
Top of Cement:	0'
OD of Hole:	14.750"
OD of Casing:	10.750"

Calculated Data:

Lead Volume:	2044.5	ft ³
Lead Fill:	2,100'	
Tail Volume:	486.8	ft ³
Tail Fill:	500'	

Cement Data:

Lead Yield:	3.16	ft ³ /sk
% Excess:	75%	
Top of Lead:	0'	

Calculated # of Sacks:

# SK's Lead:	660
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Tail Yield:	1.36	ft ³ /sk
% Excess:	75%	
Top of Tail:	2,100'	

# SK's Tail:	360
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Production Hole Data:

Total Depth:	9,409'
Top of Cement:	2,100'
Top of Tail:	6,334'
OD of Hole:	9.875"
OD of Casing:	5.500"

Calculated Data:

Lead Volume:	2330.0	ft ³
Lead Fill:	4,234'	
Tail Volume:	1692.4	ft ³
Tail Fill:	3,075'	

Cement Data:

Lead Yield:	2.31	ft ³ /sk
Tail Yield:	1.42	ft ³ /sk
% Excess:	50%	

Calculated # of Sacks:

# SK's Lead:	1010
# SK's Tail:	1200

RECEIVED: November 15, 2011

12-4D-45 BTR Proposed Cementing Program
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<u>Job Recommendation</u>	<u>Surface Casing</u>
Lead Cement - (2100' - 0')	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft ³ /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 2,100'
	Volume: 364.11 bbl
	Proposed Sacks: 660 sks
Tail Cement - (TD - 2100')	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft ³ /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 2,100'
	Calculated Fill: 500'
	Volume: 86.69 bbl
	Proposed Sacks: 360 sks

<u>Job Recommendation</u>	<u>Production Casing</u>
Lead Cement - (6334' - 2100')	
Tuned Light TM System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft ³ /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 2,100'
	Calculated Fill: 4,234'
	Volume: 414.96 bbl
	Proposed Sacks: 1010 sks
Tail Cement - (9409' - 6334')	
Econocem TM System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft ³ /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 6,334'
	Calculated Fill: 3,075'
	Volume: 301.40 bbl
	Proposed Sacks: 1200 sks

T4S, R5W, U.S.B.&M.

BILL BARRETT CORPORATION

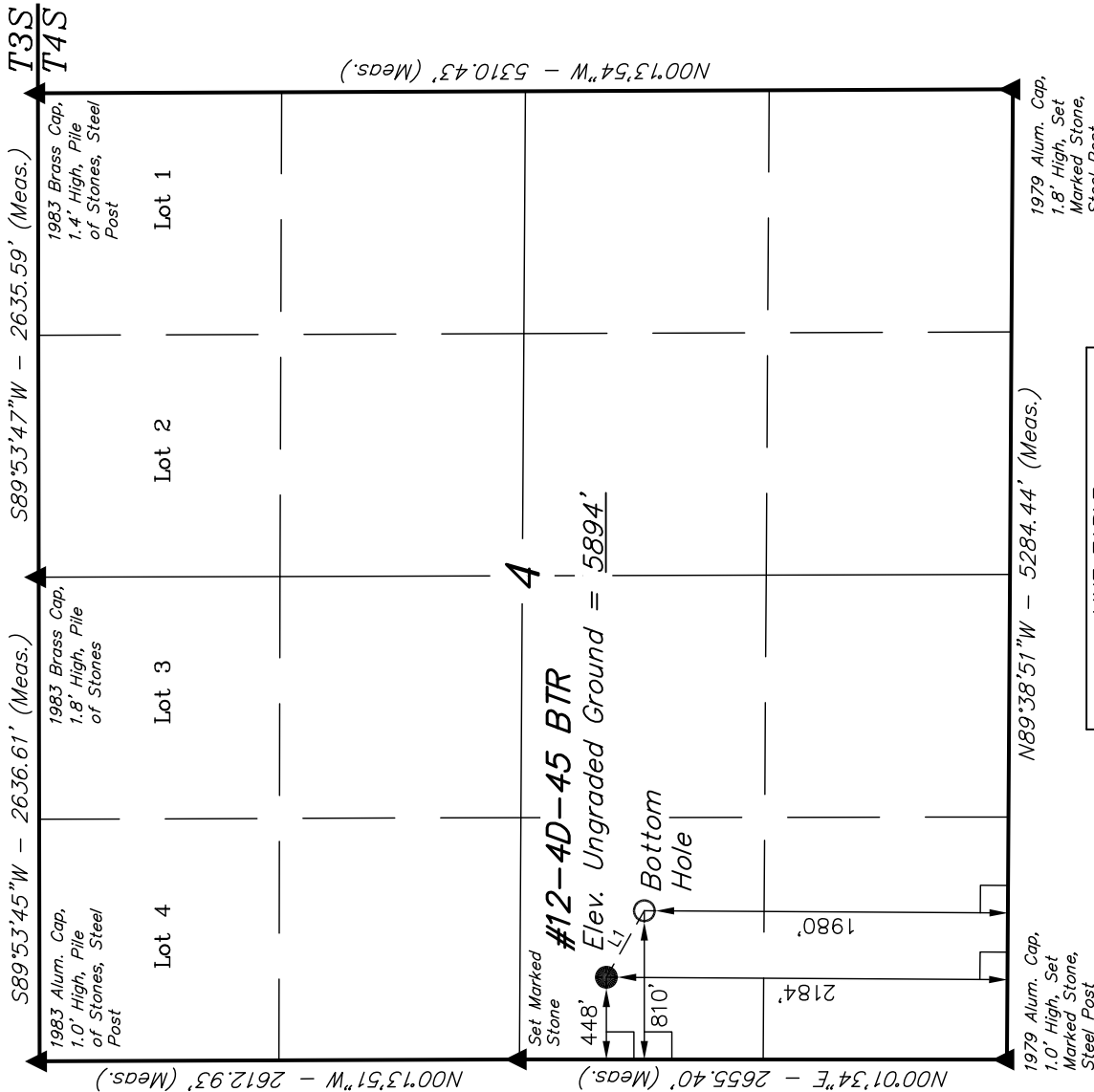
Well location, #12-4D-45 BTR, located as shown in the NW 1/4 SW 1/4 of Section 4, T4S, R5W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE. QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

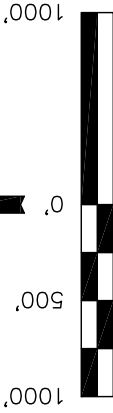


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S60°18'50"E	417.04'

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°09'37.06"	(40.160294)	LATITUDE = 40°09'39.10"	(40.160861)
LONGITUDE = 110°27'42.40"	(110.461778)	LONGITUDE = 110°27'47.07"	(110.463075)
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°09'37.21"	(40.160336)	LATITUDE = 40°09'39.25"	(40.160903)
LONGITUDE = 110°27'39.84"	(110.461087)	LONGITUDE = 110°27'44.51"	(110.462364)



S C A L E

CERTIFICATE

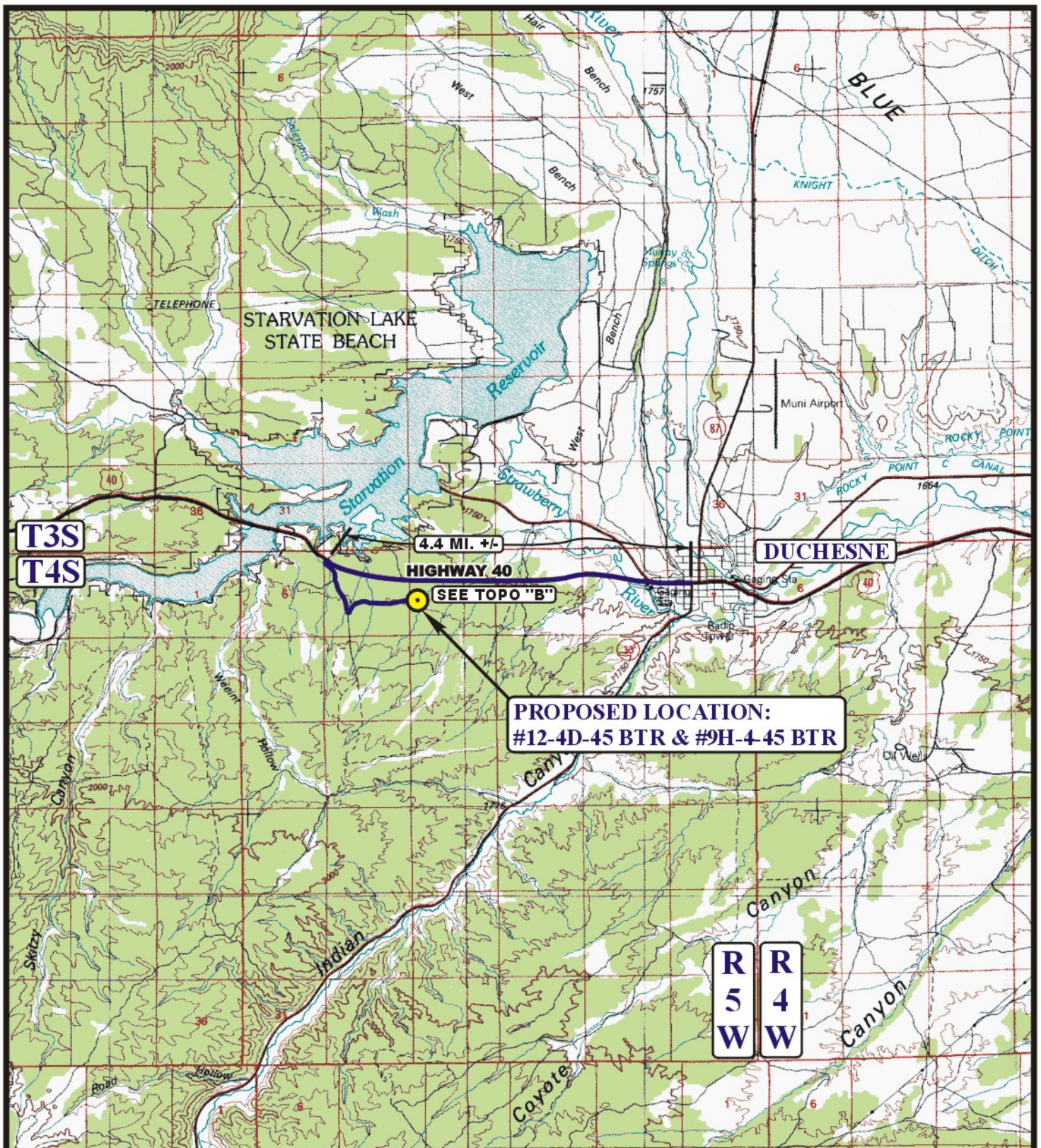
THIS IS TO CERTIFY THAT THE ABOVE POINT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY CLOSE SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH
08-30-11

REVISED: 08-08-11
REVISED: 05-05-11

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 12-17-10	DATE DRAWN: 01-25-11
PARTY T.A. C.N. S.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE	
BILL BARRETT CORPORATION		



LEGEND:

PROPOSED LOCATION

BILL BARRETT CORPORATION

#12-4D-45 BTR & #9H-4-45 BTR
SECTION 4, T4S, R5W, U.S.B.&M.
NW 1/4 SW 1/4



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



ACCESS ROAD
MAP

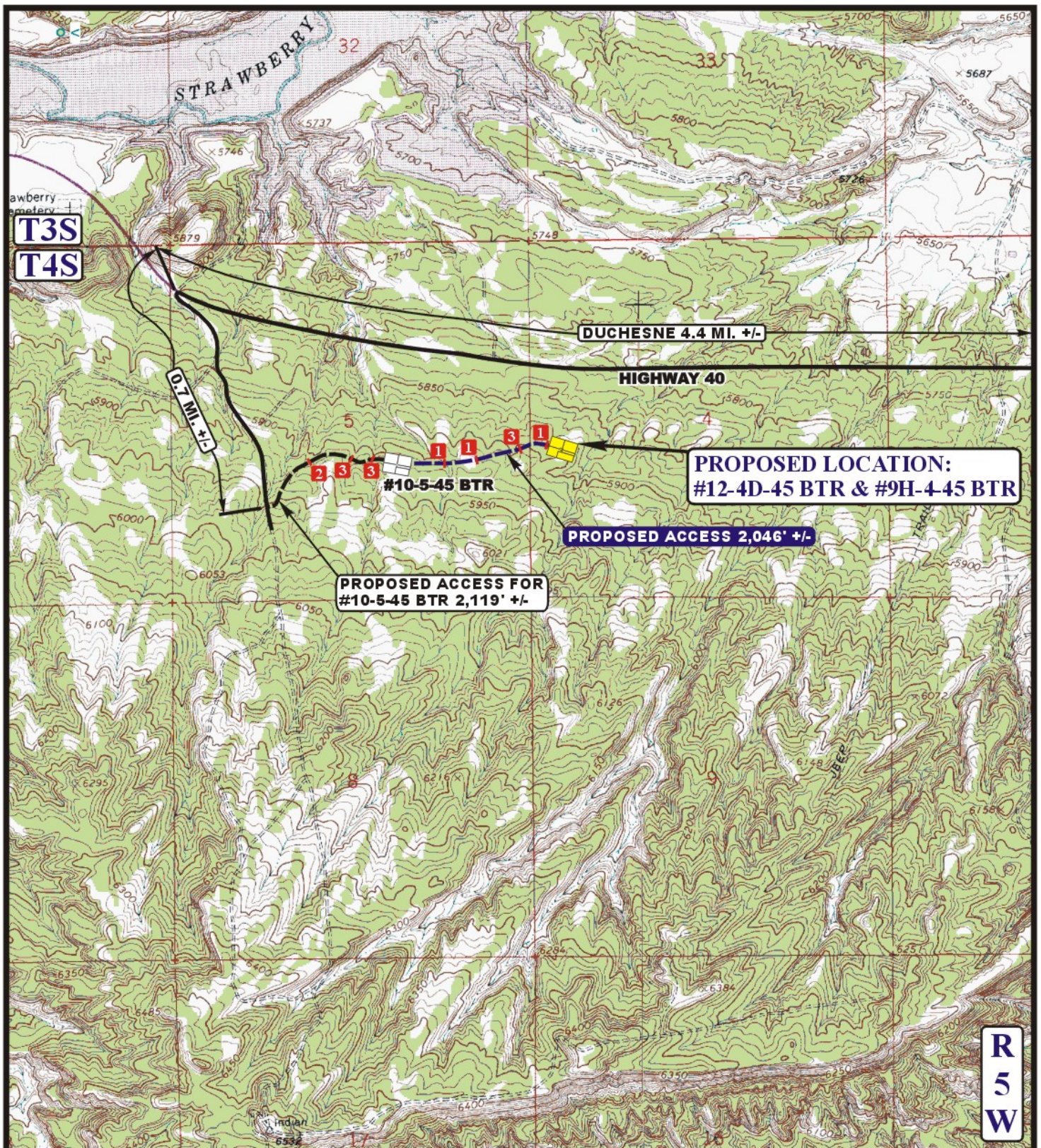
01 07 11
 MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: J.J.

REV: 07-27-11 C.I.





LEGEND:

- | | | | |
|--|------------------|--|----------------------|
| | EXISTING ROAD | | PROPOSED ACCESS ROAD |
| | 18" CMP REQUIRED | | 24" CMP REQUIRED |
| | 36" CMP REQUIRED | | |



Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
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BILL BARRETT CORPORATION

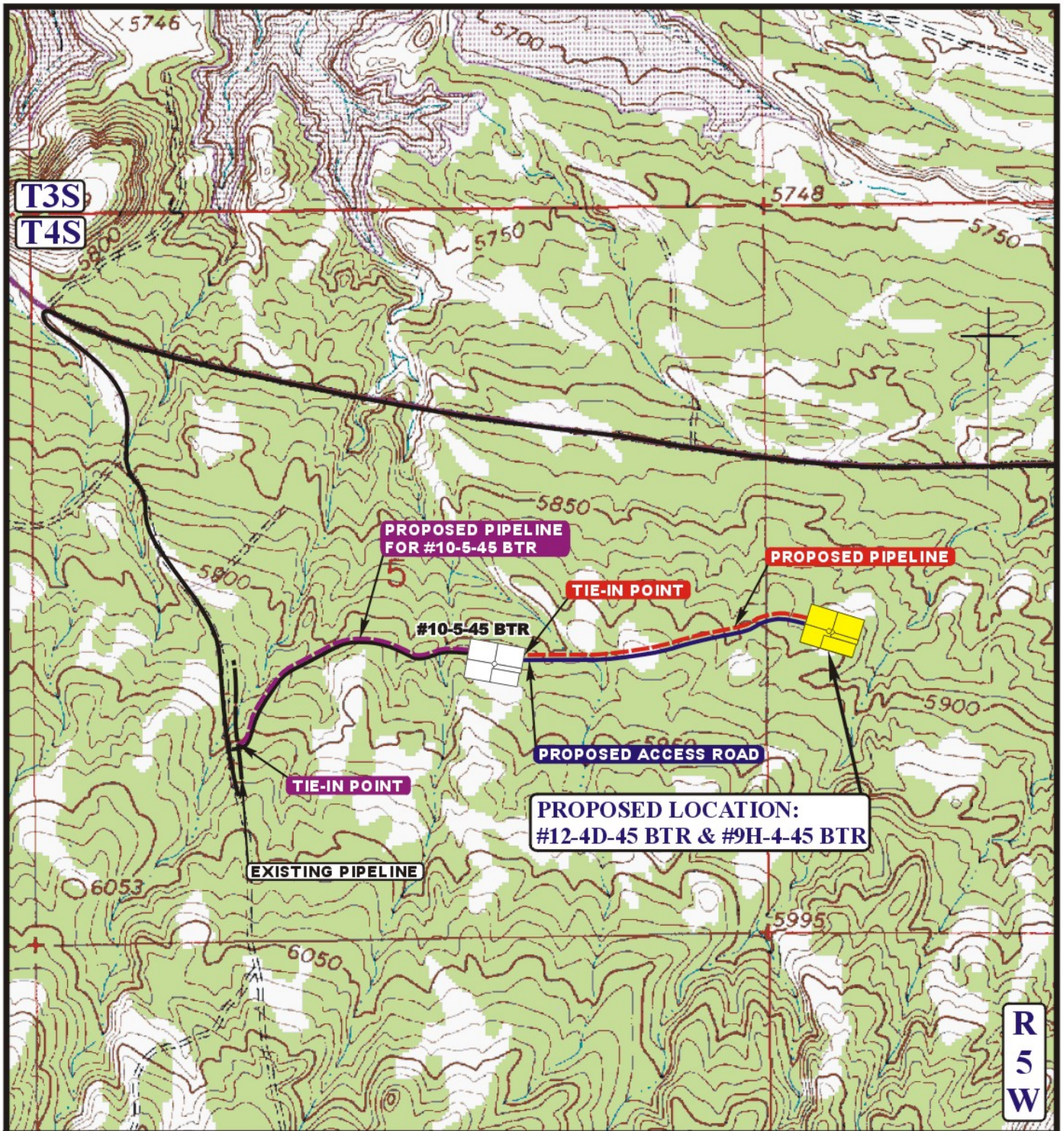
#12-4D-45 BTR & #9H-4-45 BTR
SECTION 4, T4S, R5W, U.S.B.&M.
NW 1/4 SW 1/4

ACCESS ROAD
MAP

01 07 11
 MONTH DAY YEAR

B
TOPO

SCALE: 1" = 2000' DRAWN BY: J.J. REV: 07-27-11 C.I.



APPROXIMATE TOTAL PIPELINE DISTANCE = 2,049' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- - - - - PROPOSED PIPELINE
- - - - - PROPOSED PIPELINE (SERVICING OTHER WELLS)



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BILL BARRETT CORPORATION

#12-4D-45 BTR & #9H-4-45 BTR
SECTION 4, T4S, R5W, U.S.B.&M.
NW 1/4 SW 1/4

TOPOGRAPHIC
MAP

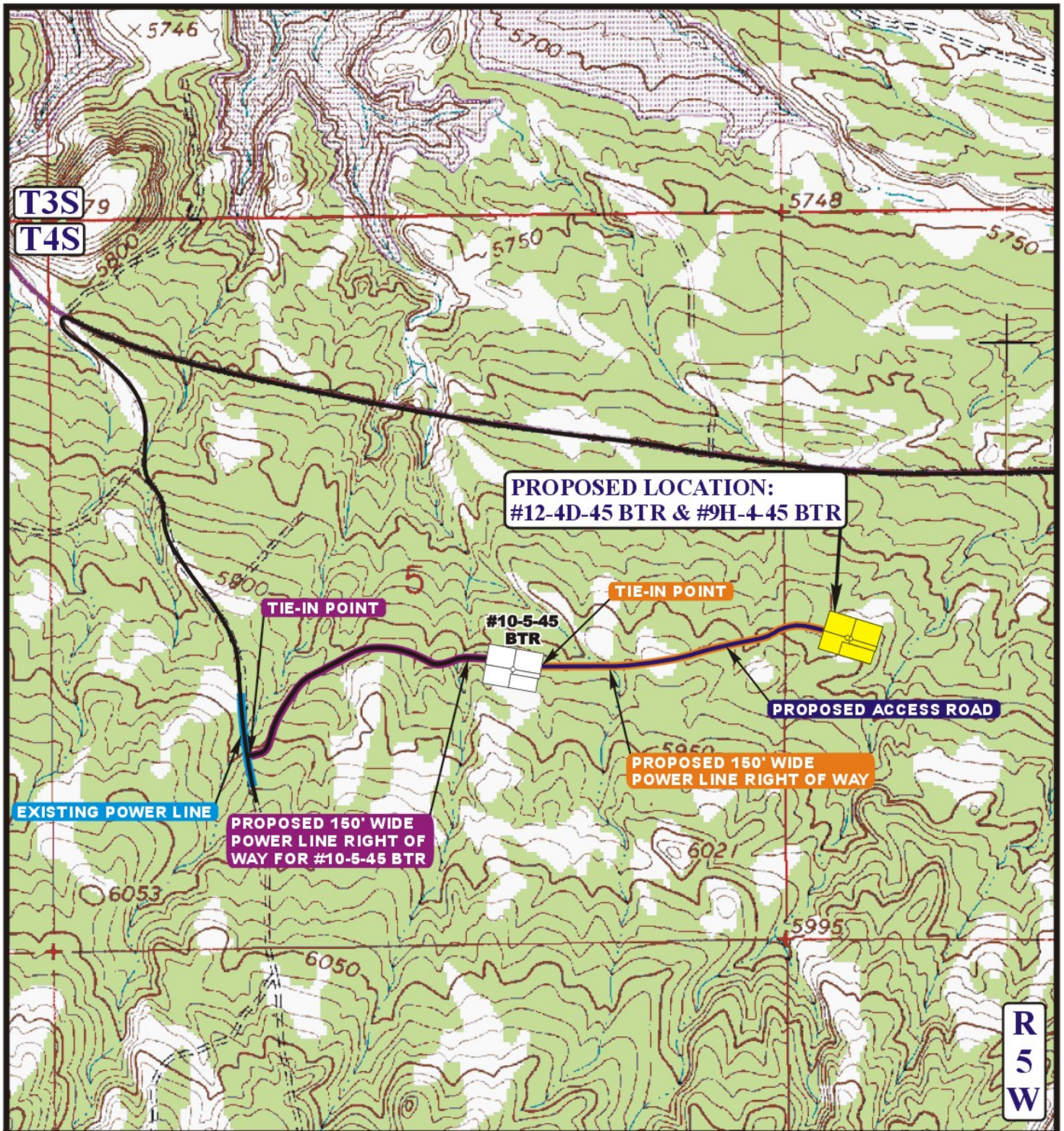
01 07 11
 MONTH DAY YEAR

SCALE: 1" = 1000'

DRAWN BY: J.J.

REV: 07-27-11 C.I.





APPROXIMATE TOTAL POWER LINE DISTANCE = 2,046' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING POWER LINE
- PROPOSED POWER LINE
- PROPOSED POWER LINE (SERVICING OTHER WELLS)



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BILL BARRETT CORPORATION

#12-4D-45 BTR & #9H-4-45 BTR
SECTION 4, T4S, R5W, U.S.B.&M.
NW 1/4 SW 1/4

**TOPOGRAPHIC
MAP**

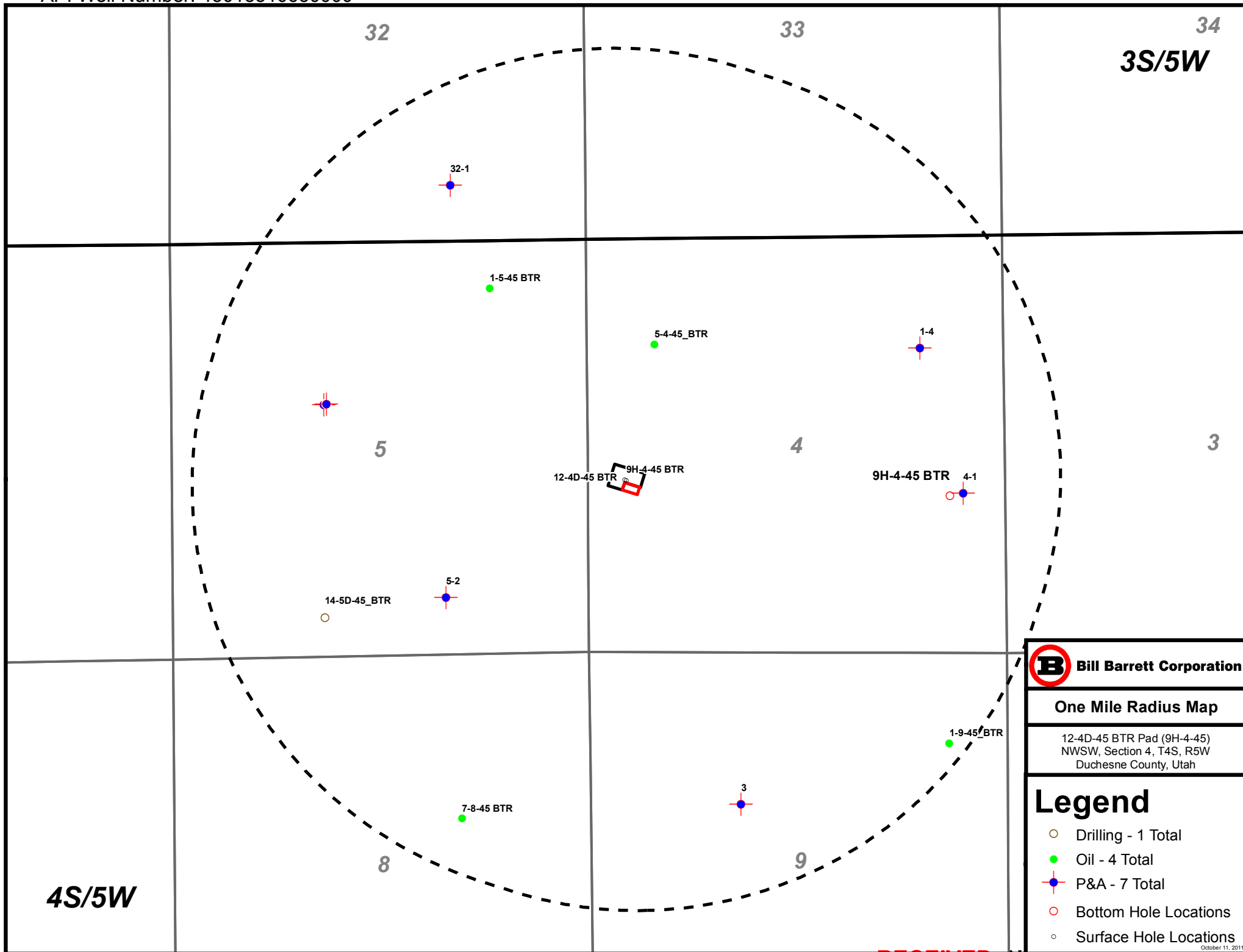
01 07 11
MONTH DAY YEAR

SCALE: 1" = 1000'

DRAWN BY: J.J.

REV: 07-27-11 C.I.

**D
TOPO**



One Mile Radius Map

12-4D-45 BTR Pad (9H-4-45)
NWSW, Section 4, T4S, R5W
Duchesne County, Utah

Legend

- Drilling - 1 Total
- Oil - 4 Total
- P&A - 7 Total
- Bottom Hole Locations
- Surface Hole Locations

RECEIVED: November 15, 2011



COMPANY DETAILS: BILL BARRETT CORP

Calculation Method: Minimum Curvature
 Error System: ISCWSA
 Scan Method: Closest Approach 3D
 Error Surface: Elliptical Conic
 Warning Method: Error Ratio

SITE DETAILS: 12-4D-45 BTR

Blacktail Ridge

Site Centre Latitude: 40° 9' 39.251 N
 Longitude: 110° 27' 44.510 W

Positional Uncertainty: 0.0
 Convergence: 0.66
 Local North: True

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
12-4D 3PT MKR	6380.0	-206.5	362.5	40° 9' 37.210 N	110° 27' 39.841 W	Rectangle (Sides: L200.0 W200.0)
12-4D PBHL	9385.0	-206.5	362.5	40° 9' 37.210 N	110° 27' 39.841 W	Rectangle (Sides: L200.0 W200.0)

SECTION DETAILS

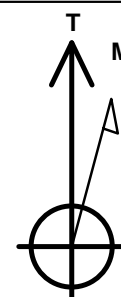
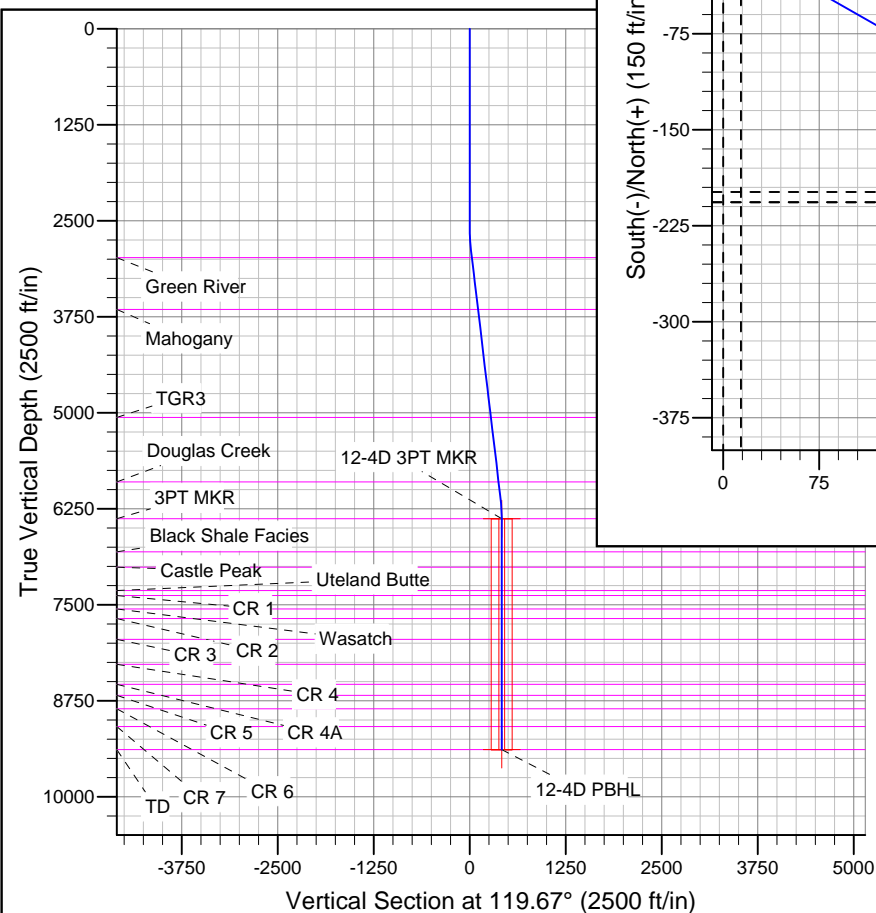
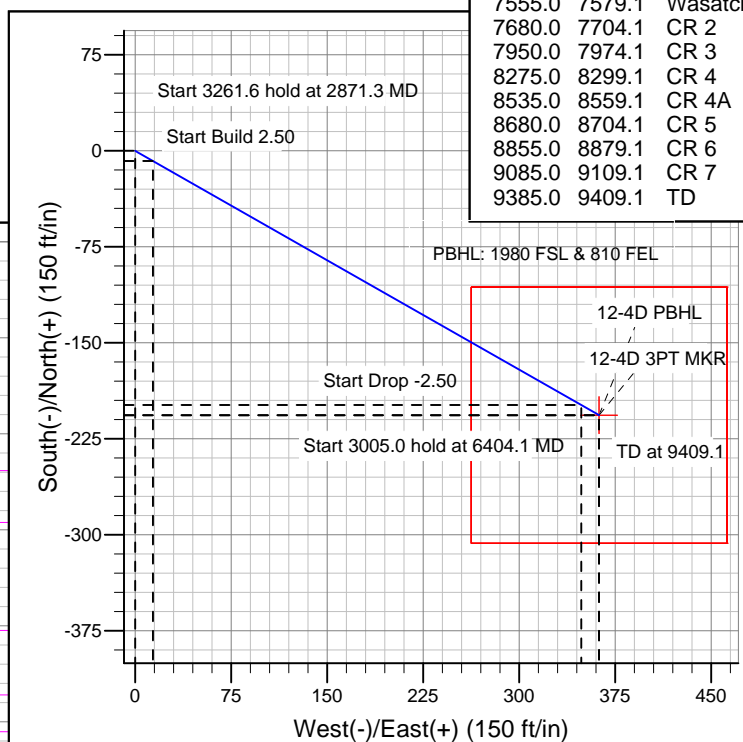
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2600.0	0.00	0.00	2600.0	0.0	0.0	0.00	0.00	0.0	
3	2871.3	6.78	119.67	2870.6	-7.9	13.9	2.50	119.67	16.0	
4	6132.8	6.78	119.67	6109.4	-198.6	348.6	0.00	0.00	401.2	
5	6404.1	0.00	0.00	6380.0	-206.5	362.5	2.50	180.00	417.2	12-4D 3PT MKR
6	9409.1	0.00	0.00	9385.0	-206.5	362.5	0.00	0.00	417.2	12-4D PBHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2980.0	2981.4	Green River
3655.0	3661.2	Mahogany
5060.0	5076.1	TGR3
5900.0	5922.0	Douglas Creek
6380.0	6404.1	3PT MKR
6810.0	6834.1	Black Shale Facies
7010.0	7034.1	Castle Peak
7315.0	7339.1	Uteland Butte
7380.0	7404.1	CR 1
7555.0	7579.1	Wasatch
7680.0	7704.1	CR 2
7950.0	7974.1	CR 3
8275.0	8299.1	CR 4
8535.0	8559.1	CR 4A
8680.0	8704.1	CR 5
8855.0	8879.1	CR 6
9085.0	9109.1	CR 7
9385.0	9409.1	TD

CASING DETAILS

No casing data is available



Azimuths to True North
 Magnetic North: 11.44°

Magnetic Field
 Strength: 52233.9snT
 Dip Angle: 65.80°
 Date: 11/4/2011
 Model: IGRF2010

BILL BARRETT CORP

DUCHESNE COUNTY, UT (NAD 27)

12-4D-45 BTR

12-4D-45 BTR

12-4D-45 BTR

Plan: Design #1

Standard Planning Report

04 November, 2011

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 12-4D-45 BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5909.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5909.0ft (Original Well Elev)
Site:	12-4D-45 BTR	North Reference:	True
Well:	12-4D-45 BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	12-4D-45 BTR		
Design:	Design #1		

Project	DUCHESNE COUNTY, UT (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	12-4D-45 BTR				
Site Position:		Northing:	667,336.56 ft	Latitude:	40° 9' 39.251 N
From:	Lat/Long	Easting:	2,290,000.22 ft	Longitude:	110° 27' 44.510 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.66 °

Well	12-4D-45 BTR					
Well Position	+N/-S	0.0 ft	Northing:	667,336.56 ft	Latitude:	40° 9' 39.251 N
	+E/-W	0.0 ft	Easting:	2,290,000.22 ft	Longitude:	110° 27' 44.510 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,894.0 ft

Wellbore	12-4D-45 BTR				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/4/2011	11.44	65.80	52,234

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	119.67

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,871.3	6.78	119.67	2,870.6	-7.9	13.9	2.50	2.50	0.00	119.67	
6,132.8	6.78	119.67	6,109.4	-198.6	348.6	0.00	0.00	0.00	0.00	
6,404.1	0.00	0.00	6,380.0	-206.5	362.5	2.50	-2.50	0.00	180.00	12-4D 3PT MKR
9,409.1	0.00	0.00	9,385.0	-206.5	362.5	0.00	0.00	0.00	0.00	12-4D PBHL

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 12-4D-45 BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5909.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5909.0ft (Original Well Elev)
Site:	12-4D-45 BTR	North Reference:	True
Well:	12-4D-45 BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	12-4D-45 BTR		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	2.50	119.67	2,700.0	-1.1	1.9	2.2	2.50	2.50	0.00
2,800.0	5.00	119.67	2,799.7	-4.3	7.6	8.7	2.50	2.50	0.00
2,871.3	6.78	119.67	2,870.6	-7.9	13.9	16.0	2.50	2.50	0.00
2,900.0	6.78	119.67	2,899.2	-9.6	16.9	19.4	0.00	0.00	0.00
2,981.4	6.78	119.67	2,980.0	-14.4	25.2	29.0	0.00	0.00	0.00
Green River									
3,000.0	6.78	119.67	2,998.5	-15.5	27.1	31.2	0.00	0.00	0.00
3,100.0	6.78	119.67	3,097.8	-21.3	37.4	43.0	0.00	0.00	0.00
3,200.0	6.78	119.67	3,197.1	-27.2	47.7	54.9	0.00	0.00	0.00
3,300.0	6.78	119.67	3,296.4	-33.0	57.9	66.7	0.00	0.00	0.00
3,400.0	6.78	119.67	3,395.7	-38.8	68.2	78.5	0.00	0.00	0.00
3,500.0	6.78	119.67	3,495.0	-44.7	78.4	90.3	0.00	0.00	0.00
3,600.0	6.78	119.67	3,594.3	-50.5	88.7	102.1	0.00	0.00	0.00
3,661.2	6.78	119.67	3,655.0	-54.1	95.0	109.3	0.00	0.00	0.00
Mahogany									
3,700.0	6.78	119.67	3,693.6	-56.4	99.0	113.9	0.00	0.00	0.00
3,800.0	6.78	119.67	3,792.9	-62.2	109.2	125.7	0.00	0.00	0.00
3,900.0	6.78	119.67	3,892.2	-68.1	119.5	137.5	0.00	0.00	0.00
4,000.0	6.78	119.67	3,991.5	-73.9	129.7	149.3	0.00	0.00	0.00
4,100.0	6.78	119.67	4,090.8	-79.8	140.0	161.1	0.00	0.00	0.00
4,200.0	6.78	119.67	4,190.1	-85.6	150.3	172.9	0.00	0.00	0.00
4,300.0	6.78	119.67	4,289.4	-91.5	160.5	184.7	0.00	0.00	0.00
4,400.0	6.78	119.67	4,388.7	-97.3	170.8	196.6	0.00	0.00	0.00
4,500.0	6.78	119.67	4,488.0	-103.1	181.0	208.4	0.00	0.00	0.00
4,600.0	6.78	119.67	4,587.3	-109.0	191.3	220.2	0.00	0.00	0.00
4,700.0	6.78	119.67	4,686.6	-114.8	201.6	232.0	0.00	0.00	0.00
4,800.0	6.78	119.67	4,785.9	-120.7	211.8	243.8	0.00	0.00	0.00

Bill Barrett Corp

Planning Report

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Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5909.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5909.0ft (Original Well Elev)
Site:	12-4D-45 BTR	North Reference:	True
Well:	12-4D-45 BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	12-4D-45 BTR		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,900.0	6.78	119.67	4,885.2	-126.5	222.1	255.6	0.00	0.00	0.00
5,000.0	6.78	119.67	4,984.5	-132.4	232.3	267.4	0.00	0.00	0.00
5,076.1	6.78	119.67	5,060.0	-136.8	240.1	276.4	0.00	0.00	0.00
TGR3									
5,100.0	6.78	119.67	5,083.8	-138.2	242.6	279.2	0.00	0.00	0.00
5,200.0	6.78	119.67	5,183.1	-144.1	252.9	291.0	0.00	0.00	0.00
5,300.0	6.78	119.67	5,282.4	-149.9	263.1	302.8	0.00	0.00	0.00
5,400.0	6.78	119.67	5,381.7	-155.8	273.4	314.6	0.00	0.00	0.00
5,500.0	6.78	119.67	5,481.0	-161.6	283.6	326.4	0.00	0.00	0.00
5,600.0	6.78	119.67	5,580.3	-167.4	293.9	338.3	0.00	0.00	0.00
5,700.0	6.78	119.67	5,679.6	-173.3	304.2	350.1	0.00	0.00	0.00
5,800.0	6.78	119.67	5,778.9	-179.1	314.4	361.9	0.00	0.00	0.00
5,900.0	6.78	119.67	5,878.2	-185.0	324.7	373.7	0.00	0.00	0.00
5,922.0	6.78	119.67	5,900.0	-186.3	326.9	376.3	0.00	0.00	0.00
Douglas Creek									
6,000.0	6.78	119.67	5,977.5	-190.8	334.9	385.5	0.00	0.00	0.00
6,100.0	6.78	119.67	6,076.8	-196.7	345.2	397.3	0.00	0.00	0.00
6,132.8	6.78	119.67	6,109.4	-198.6	348.6	401.2	0.00	0.00	0.00
6,200.0	5.10	119.67	6,176.2	-202.0	354.6	408.1	2.50	-2.50	0.00
6,300.0	2.60	119.67	6,276.0	-205.4	360.4	414.8	2.50	-2.50	0.00
6,400.0	0.10	119.67	6,375.9	-206.5	362.5	417.2	2.50	-2.50	0.00
6,404.1	0.00	0.00	6,380.0	-206.5	362.5	417.2	2.50	-2.50	0.00
3PT MKR - 12-4D 3PT MKR									
6,500.0	0.00	0.00	6,475.9	-206.5	362.5	417.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,575.9	-206.5	362.5	417.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,675.9	-206.5	362.5	417.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,775.9	-206.5	362.5	417.2	0.00	0.00	0.00
6,834.1	0.00	0.00	6,810.0	-206.5	362.5	417.2	0.00	0.00	0.00
Black Shale Facies									
6,900.0	0.00	0.00	6,875.9	-206.5	362.5	417.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,975.9	-206.5	362.5	417.2	0.00	0.00	0.00
7,034.1	0.00	0.00	7,010.0	-206.5	362.5	417.2	0.00	0.00	0.00
Castle Peak									
7,100.0	0.00	0.00	7,075.9	-206.5	362.5	417.2	0.00	0.00	0.00
7,200.0	0.00	0.00	7,175.9	-206.5	362.5	417.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,275.9	-206.5	362.5	417.2	0.00	0.00	0.00
7,339.1	0.00	0.00	7,315.0	-206.5	362.5	417.2	0.00	0.00	0.00
Uteland Butte									
7,400.0	0.00	0.00	7,375.9	-206.5	362.5	417.2	0.00	0.00	0.00
7,404.1	0.00	0.00	7,380.0	-206.5	362.5	417.2	0.00	0.00	0.00
CR 1									
7,500.0	0.00	0.00	7,475.9	-206.5	362.5	417.2	0.00	0.00	0.00
7,579.1	0.00	0.00	7,555.0	-206.5	362.5	417.2	0.00	0.00	0.00
Wasatch									
7,600.0	0.00	0.00	7,575.9	-206.5	362.5	417.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,675.9	-206.5	362.5	417.2	0.00	0.00	0.00
7,704.1	0.00	0.00	7,680.0	-206.5	362.5	417.2	0.00	0.00	0.00
CR 2									
7,800.0	0.00	0.00	7,775.9	-206.5	362.5	417.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,875.9	-206.5	362.5	417.2	0.00	0.00	0.00
7,974.1	0.00	0.00	7,950.0	-206.5	362.5	417.2	0.00	0.00	0.00
CR 3									
8,000.0	0.00	0.00	7,975.9	-206.5	362.5	417.2	0.00	0.00	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 12-4D-45 BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5909.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5909.0ft (Original Well Elev)
Site:	12-4D-45 BTR	North Reference:	True
Well:	12-4D-45 BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	12-4D-45 BTR		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,100.0	0.00	0.00	8,075.9	-206.5	362.5	417.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,175.9	-206.5	362.5	417.2	0.00	0.00	0.00
8,299.1	0.00	0.00	8,275.0	-206.5	362.5	417.2	0.00	0.00	0.00
CR 4									
8,300.0	0.00	0.00	8,275.9	-206.5	362.5	417.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,375.9	-206.5	362.5	417.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,475.9	-206.5	362.5	417.2	0.00	0.00	0.00
8,559.1	0.00	0.00	8,535.0	-206.5	362.5	417.2	0.00	0.00	0.00
CR 4A									
8,600.0	0.00	0.00	8,575.9	-206.5	362.5	417.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,675.9	-206.5	362.5	417.2	0.00	0.00	0.00
8,704.1	0.00	0.00	8,680.0	-206.5	362.5	417.2	0.00	0.00	0.00
CR 5									
8,800.0	0.00	0.00	8,775.9	-206.5	362.5	417.2	0.00	0.00	0.00
8,879.1	0.00	0.00	8,855.0	-206.5	362.5	417.2	0.00	0.00	0.00
CR 6									
8,900.0	0.00	0.00	8,875.9	-206.5	362.5	417.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,975.9	-206.5	362.5	417.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,075.9	-206.5	362.5	417.2	0.00	0.00	0.00
9,109.1	0.00	0.00	9,085.0	-206.5	362.5	417.2	0.00	0.00	0.00
CR 7									
9,200.0	0.00	0.00	9,175.9	-206.5	362.5	417.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,275.9	-206.5	362.5	417.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,375.9	-206.5	362.5	417.2	0.00	0.00	0.00
9,409.1	0.00	0.00	9,385.0	-206.5	362.5	417.2	0.00	0.00	0.00
TD - 12-4D PBHL									

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 12-4D-45 BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5909.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5909.0ft (Original Well Elev)
Site:	12-4D-45 BTR	North Reference:	True
Well:	12-4D-45 BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	12-4D-45 BTR		
Design:	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,981.4	2,980.0	Green River		0.00		
3,661.2	3,655.0	Mahogany		0.00		
5,076.1	5,060.0	TGR3		0.00		
5,922.0	5,900.0	Douglas Creek		0.00		
6,404.1	6,380.0	3PT MKR		0.00		
6,834.1	6,810.0	Black Shale Facies		0.00		
7,034.1	7,010.0	Castle Peak		0.00		
7,339.1	7,315.0	Uteland Butte		0.00		
7,404.1	7,380.0	CR 1		0.00		
7,579.1	7,555.0	Wasatch		0.00		
7,704.1	7,680.0	CR 2		0.00		
7,974.1	7,950.0	CR 3		0.00		
8,299.1	8,275.0	CR 4		0.00		
8,559.1	8,535.0	CR 4A		0.00		
8,704.1	8,680.0	CR 5		0.00		
8,879.1	8,855.0	CR 6		0.00		
9,109.1	9,085.0	CR 7		0.00		
9,409.1	9,385.0	TD		0.00		

SURFACE USE PLAN

BILL BARRETT CORPORATION **12-4D-45 BTR & 9H-4-45 BTR Well Pad** **Duchesne County, Utah**

<u>12-4D-45 BTR</u>	<u>9H-4-45 BTR</u>
NW SW, 2184' FSL & 448' FWL, Sec. 4, T4S-R5W (surface hole) NW SW, 1980' FSL & 810' FWL, Sec. 4, T4S-R5W (bottom hole)	NW SW, 2180' FSL & 463' FWL, Sec. 4, T4S-R5W (surface hole) NE SE, 1980' FSL & 700' FEL, Sec. 4, T4S-R5W (bottom hole)

The onsite inspection for this pad occurred on October 14, 2011. This is a new pad with a total of two proposed wells. No site specific conditions or changes were received as a result of the onsite, with no plat changes requested.

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:

- a. The proposed well pad is located approximately 5.9 miles west of Duchesne, Utah. Maps and directions reflecting the route to the proposed well pad are included (see Topographic maps A and B).
- b. The existing State Highway 40 would be utilized from Duchesne for 4.4 miles to the existing BBC maintained 16-7-45 BTR access road that would be utilized for 0.7 miles and provides access to the planned new access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permits are required.
- f. All existing roads would be maintained and kept in good repair during all phases of operation.

Bill Barrett Corporation
Surface Use Plan
#12-4D-45 BTR & #9H-4-45 BTR Pad
Duchesne County, UT

2. Planned Access Road:

- a. Approximately 2,046 feet of new access road trending east is planned from the proposed 10-5-45 BTR access road. The 10-5-45 BTR access has been applied for and continues an additional 2,119 feet to the existing 16-7-45 BTR access road (see Topographic Map B). The access road crosses entirely Ute Tribe surface.
- b. The planned access road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the pad.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed.

Bill Barrett Corporation
Surface Use Plan
#12-4D-45 BTR & #9H-4-45 BTR Pad
Duchesne County, UT

- i. Three 18" culverts, one 24" culvert and three 36" culverts are proposed along the proposed access road. No low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.
 - j. No gates or cattle guards are anticipated at this time.
 - k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
 - l. All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007.
 - m. The operator would be responsible for all maintenance needs of the new access road.
3. Location of Existing Wells (see One-Mile Radius Map):
- a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:
 - i. water wells none
 - ii. injection wells none
 - iii. disposal wells none
 - iv. drilling wells one
 - v. temp shut-in wells none
 - vi. producing wells four
 - vii. abandoned wells seven
4. Location of Production Facilities
- a. Surface facilities would consist of a wellhead, separator, gas meter, combustor, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or ESP or gas lift unit, electrical or with a natural gas or diesel fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
 - b. Most wells would be fitted with a pump jack or Roto-flex unit or ESP or gas lift to assist liquid production. The prime mover for pump jacks or Roto-flex units would be small (100 horsepower or less), electric motor or natural gas or diesel fired internal combustion engines.

Bill Barrett Corporation
Surface Use Plan
#12-4D-45 BTR & #9H-4-45 BTR Pad
Duchesne County, UT

If a gas lift is installed, it would be set on a 10 ft x 25 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by electricity.

- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 2,049 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) is proposed trending west to the proposed 10-5-45 BTR pipeline corridor. The 10-5-45 BTR pipeline corridor has been applied for and continues 2,122 feet to the existing pipeline corridor for the 16-7-45 BTR. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the proposed pipeline servicing nearby BBC wells. The pipeline crosses entirely Ute Tribe surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well pad and access roads would facilitate the staging of the pipeline construction.
- i. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.

Bill Barrett Corporation
 Surface Use Plan
 #12-4D-45 BTR & #9H-4-45 BTR Pad
 Duchesne County, UT

- j. All permanent above-ground structures would be painted a flat, non-reflective Beetle Green color, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- l. The pad would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water Supply:

- a. Water for the drilling and completion would be trucked from any of the following locations:

Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
43-180	Duchesne City Water Service District	5 cfs	8/13/2004	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	5.49 cfr and 3967 acre feet	3/21/1986	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	2 cfs	1994	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	1.58 cfs	1994	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	7 cfs	1946	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	4 cfs	6/03/2010	Strawberry River	Strawberry River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah – Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations for each well.

Bill Barrett Corporation
Surface Use Plan
#12-4D-45 BTR & #9H-4-45 BTR Pad
Duchesne County, UT

6. Source of Construction Material:

- a. The use of materials would conform to 43 CFR 3610.2-3.
- b. No construction materials would be removed from the lease or EDA area.
- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the wells other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

Disposal Facilities
1. RNI Industries, Inc. – Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
2. Pro Water LLC – Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
3. RN Industries, Inc. – Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
4. Water Disposal, Inc. – Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W

Bill Barrett Corporation
 Surface Use Plan
 #12-4D-45 BTR & #9H-4-45 BTR Pad
 Duchesne County, UT

Disposal Facilities
5. Unified Water Pits – Sec. 31, T2S-R4W
6. Iowa Tank Line Pits – 8500 BLM Fence Road, Pleasant Valley

- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO₂ gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- l. A flare pit may be constructed a minimum of 110 feet from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels,

Bill Barrett Corporation
Surface Use Plan
#12-4D-45 BTR & #9H-4-45 BTR Pad
Duchesne County, UT

separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.

- m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

8. Ancillary Facilities:

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.
- c. A surface powerline corridor 2,046 feet in length is proposed for installation by third-party installer within a 150 foot wide powerline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.

9. Well Pad Layout:

- a. Each well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with industry specifications.
- d. The pad has been staked at its maximum size of 384 feet x 285 feet with an inboard reserve pit size of 226 feet x 100 feet x 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.

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Duchesne County, UT

- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well pad to prevent surface waters from entering the well pad area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan would be submitted, if requested, within 90 days of location construction to the surface managing agency.
- b. Pad reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well pad by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization.

Bill Barrett Corporation
 Surface Use Plan
 #12-4D-45 BTR & #9H-4-45 BTR Pad
 Duchesne County, UT

Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the Ute Tribe specified seed mix.

- f. Topsoil salvaged from the drill pad and stored for more than one year would be placed at the location indicated on the well pad layout drawing and graded to a depth optimum to maintain topsoil viability, seeded with the Ute Tribe prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

11. Surface and Mineral Ownership:

- a. Surface & mineral ownership – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies as MOAC Report No. 10-256 dated May 24, 2011.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.

- c. Project personnel and contractors would be educated on and subject to the following requirements:

- No dogs or firearms within the Project Area.
- No littering within the Project Area.
- Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders.
- Campfires or uncontained fires of any kind would be prohibited.
- Portable generators used in the Project Area would have spark arrestors.

- d. Disturbance estimates:

Approximate Acreage Disturbances

Well Pad		3.461	acres
Access	2046 feet	1.409	acres
Pipeline	2049 feet	1.411	acres
Powerline	2046 feet	7.046	acres
Total		13.327	acres

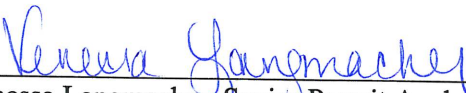
Bill Barrett Corporation
Surface Use Plan
#12-4D-45 BTR & #9H-4-45 BTR Pad
Duchesne County, UT

OPERATOR CERTIFICATION

Certification:

I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

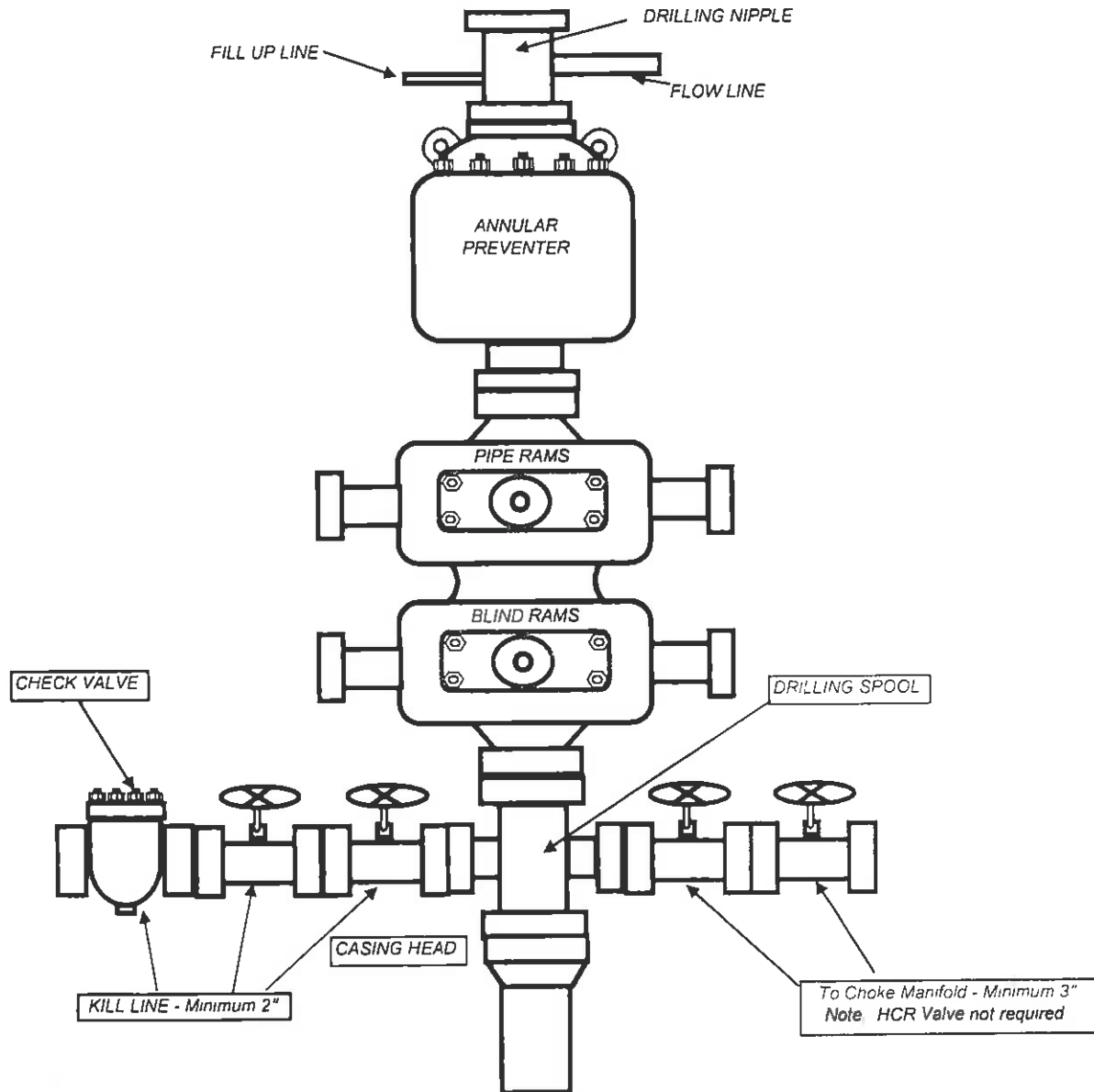
Executed this	<u>5th</u> day of <u>November</u> 2011
Name:	Venessa Langmacher
Position Title:	Senior Permit Analyst
Address:	1099 18 th Street, Suite 2300, Denver, CO 80202
Telephone:	303-312-8172
E-mail:	vlangmacher@billbarrettcorp.com
Field Representative	Kary Eldredge / Bill Barrett Corporation
Address:	1820 W. Highway 40, Roosevelt, UT 84066
Telephone:	435-725-3515 (office); 435-724-6789 (mobile)
E-mail:	keldredge@billbarrettcorp.com



Venessa Langmacher, Senior Permit Analyst

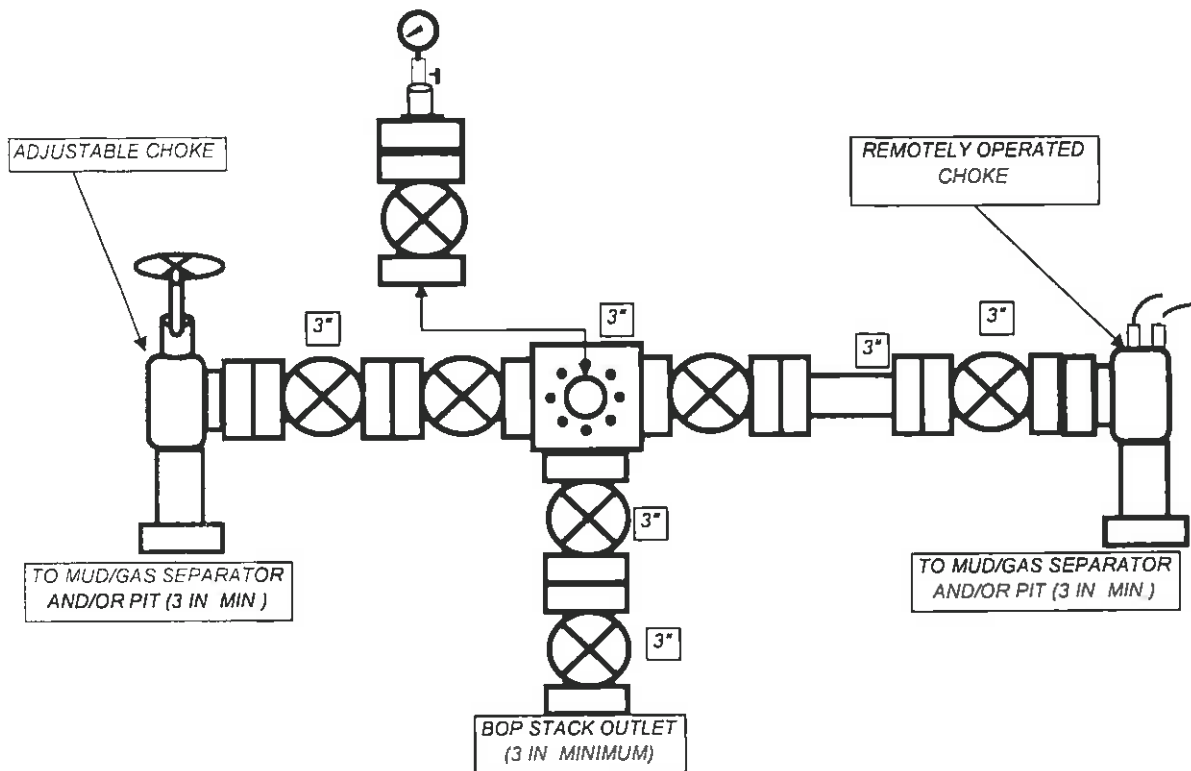
BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





November 15, 2011

Ms. Diana Mason – Petroleum Technician
State of Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11
Blacktail Ridge Area #12-4D-45 BTR Well
Surface: 2,184' FSL & 448' FWL, NWSW, 4-T4S-R5W, USM
Bottom Hole: 1,980' FSL & 810' FWL, NWSW, 4-T4S-R5W, USM
Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

- The proposed location is within our Blacktail Ridge Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under an Exploration and Development Agreement between the Ute Indian Tribe and Ute Distribution Corporation. Ute Energy, LLC owns a right to participate in this well.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with Ute Energy, LLC, we own 100% of the working interest in these lands.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8544.

Sincerely,



David Watts
Landman

1099 18TH STREET
SUITE 2300
DENVER, CO 80202
P 303.293.9100
F 303.291.0420

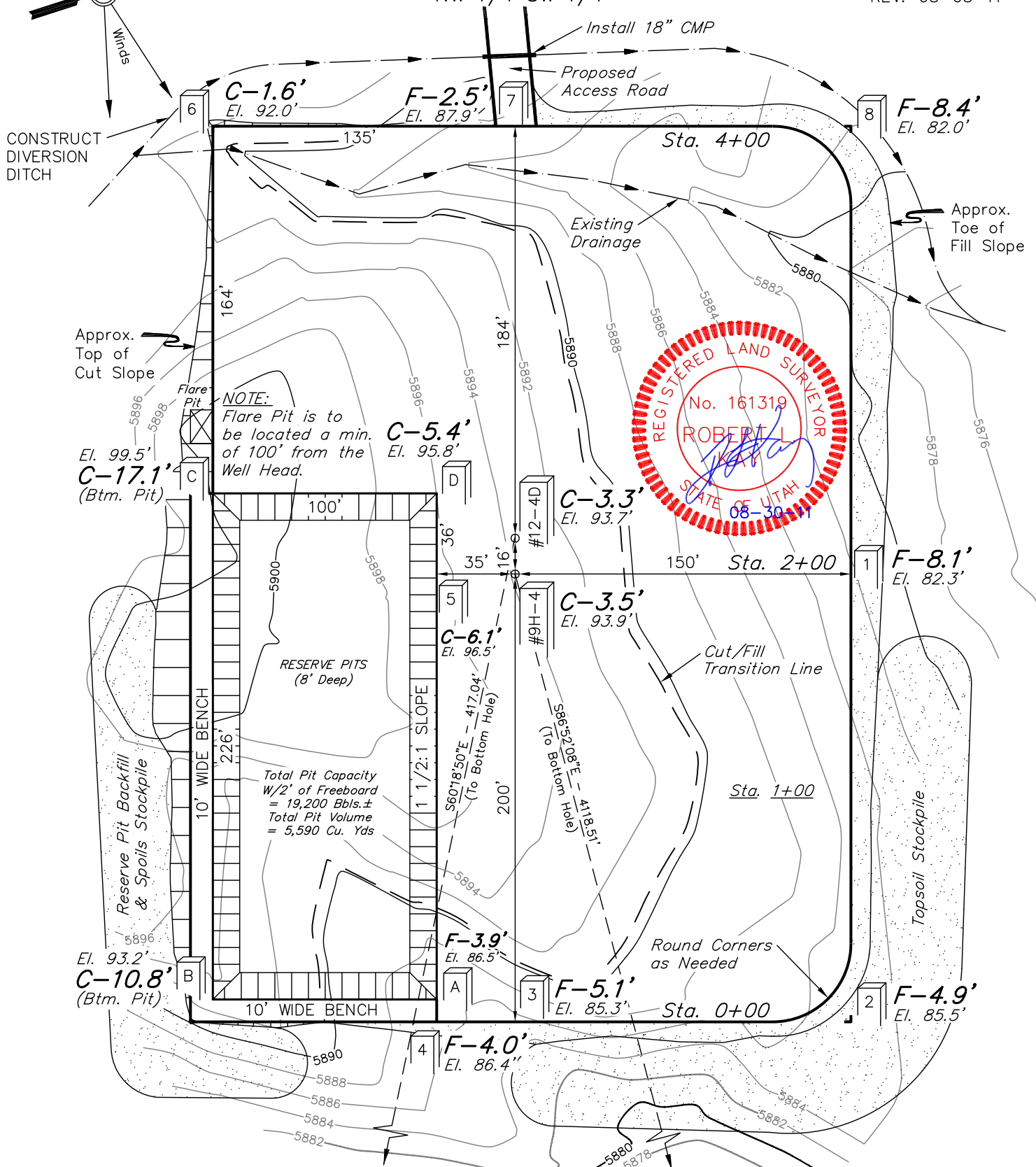
BILL BARRETT CORPORATION

LOCATION LAYOUT FOR

#12-4D-45 BTR & 9H-4-45 BTR
SECTION 4, T4S, R5W, U.S.B.&M.
NW 1/4 SW 1/4

FIGURE #1

SCALE: 1" = 60'
DATE: 01-25-11
DRAWN BY: S.B.
REV: 05-05-11
REV: 08-08-11



UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: November 15, 2011

BILL BARRETT CORPORATION**TYPICAL CROSS SECTIONS FOR**

#12-4D-45 BTR & 9H-4-45 BTR

SECTION 4, T4S, R5W, U.S.B.&M.

NW 1/4 SW 1/4

FIGURE #2

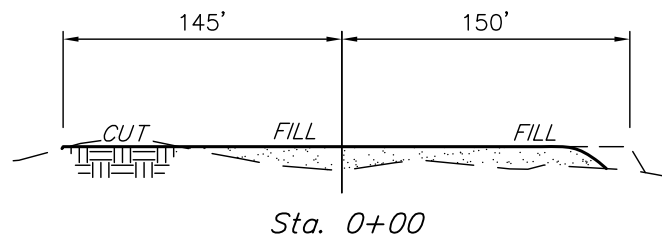
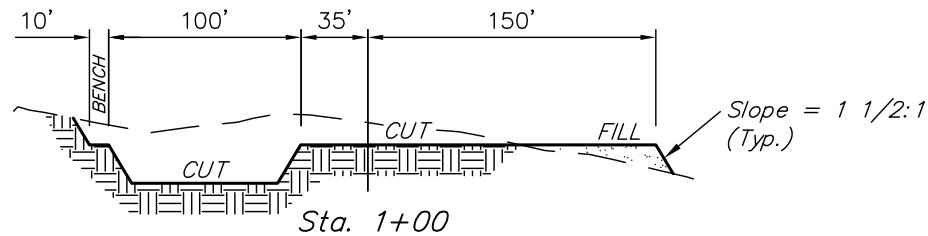
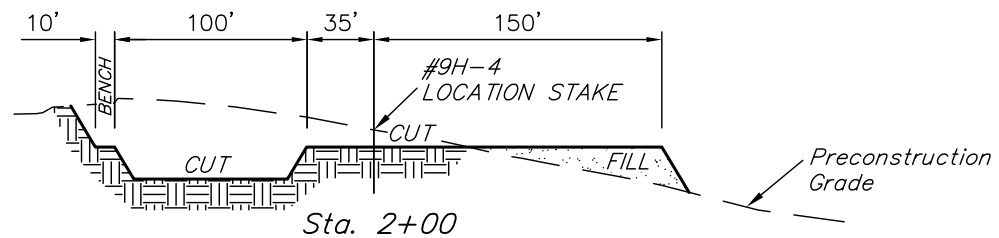
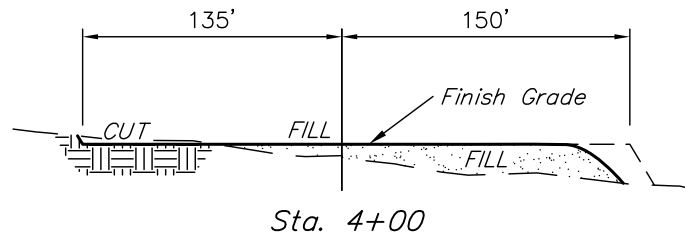
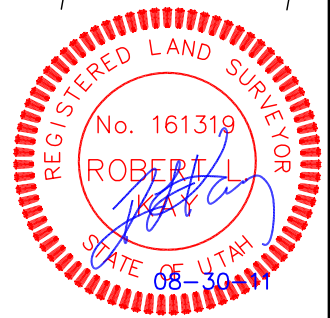
1" = 40'
X-Section
Scale
1" = 100'

DATE: 01-25-11

DRAWN BY: S.B.

REV: 05-05-11

REV: 08-08-11

**NOTE:**

Topsoil should not be
Stripped Below Finished
Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping = 4,920 Cu. Yds.
Remaining Location = 14,570 Cu. Yds.
TOTAL CUT = 19,490 CU.YDS.
FILL = 11,760 CU.YDS.

EXCESS MATERIAL = 7,730 Cu. Yds.
Topsoil & Pit Backfill = 7,730 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 0 Cu. Yds.
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

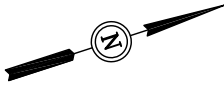
RECEIVED: November 15, 2011

BILL BARRETT CORPORATION

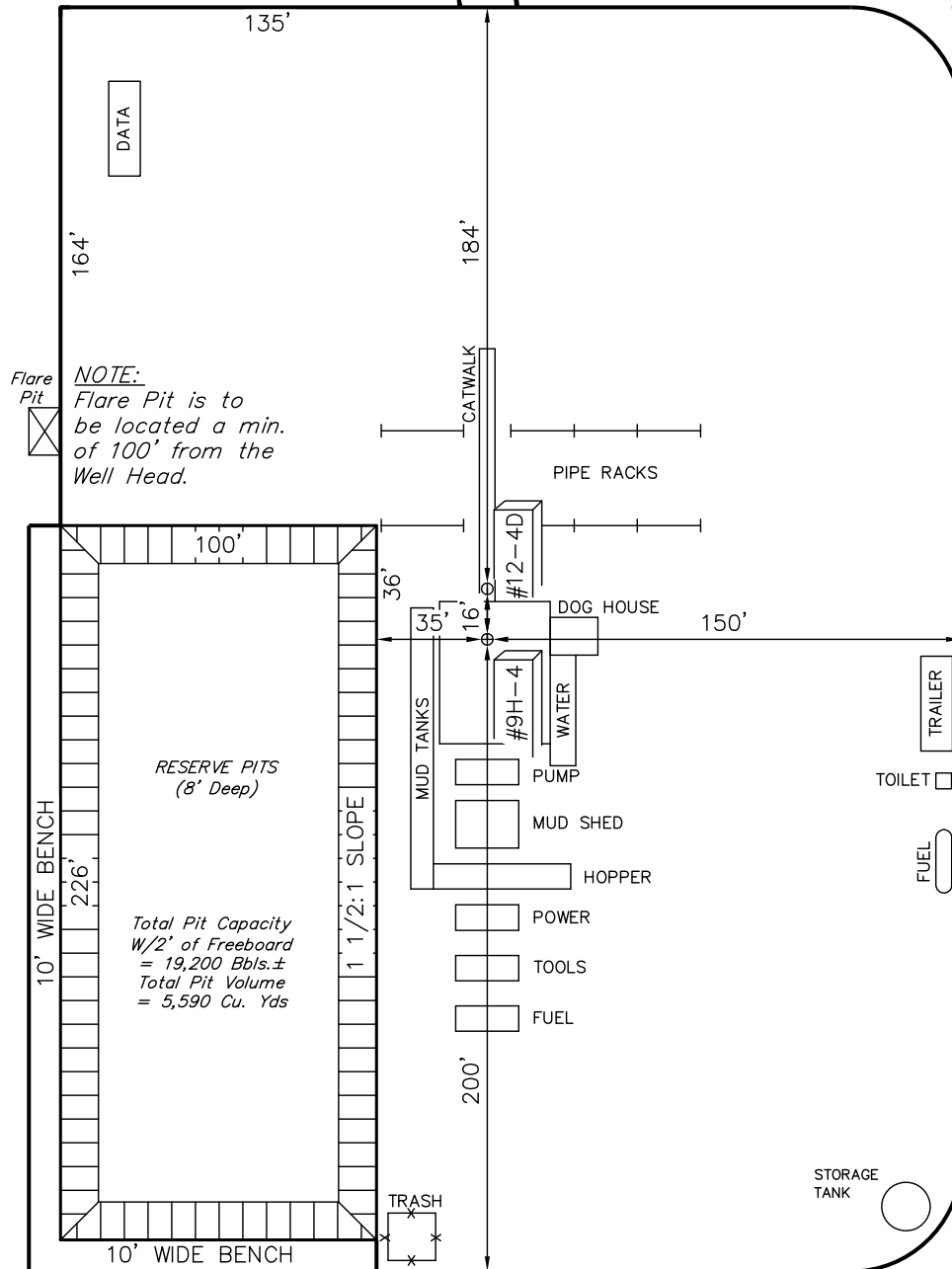
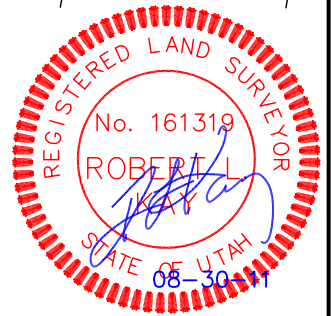
TYPICAL RIG LAYOUT FOR

#12-4D-45 BTR & 9H-4-45 BTR
SECTION 4, T4S, R5W, U.S.B.&M.
NW 1/4 SW 1/4

FIGURE #3

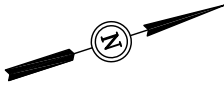


SCALE: 1" = 60'
DATE: 01-25-11
DRAWN BY: S.B.
REV: 05-05-11
REV: 08-08-11

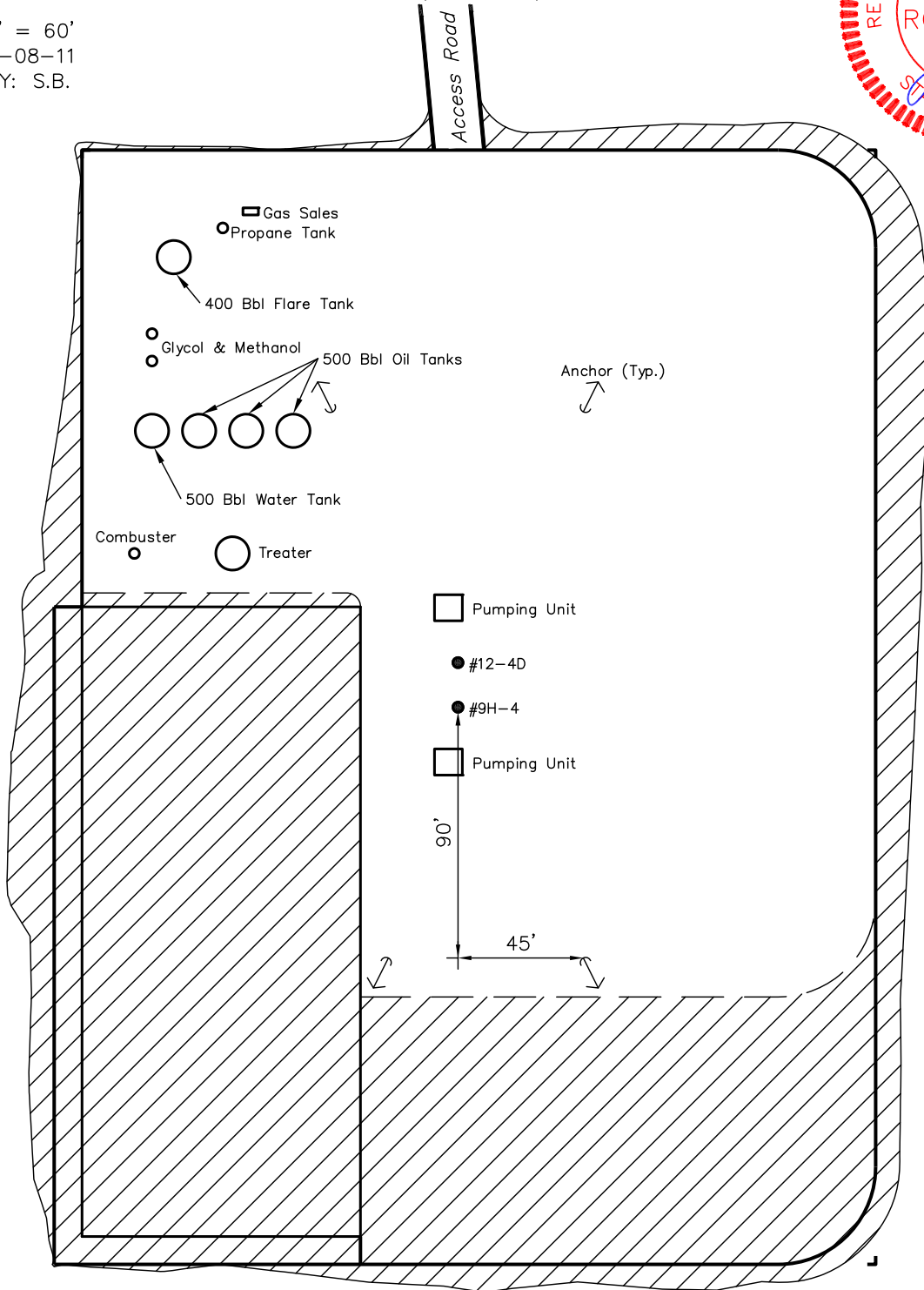
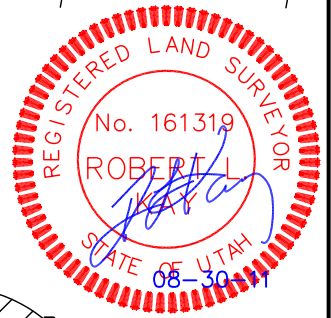


BILL BARRETT CORPORATION
 INTERIM RECLAMATION PLAN FOR
 #12-4D-45 BTR & 9H-4-45 BTR
 SECTION 4, T4S, R5W, U.S.B.&M.
 NW 1/4 SW 1/4

FIGURE #4



SCALE: 1" = 60'
 DATE: 08-08-11
 DRAWN BY: S.B.

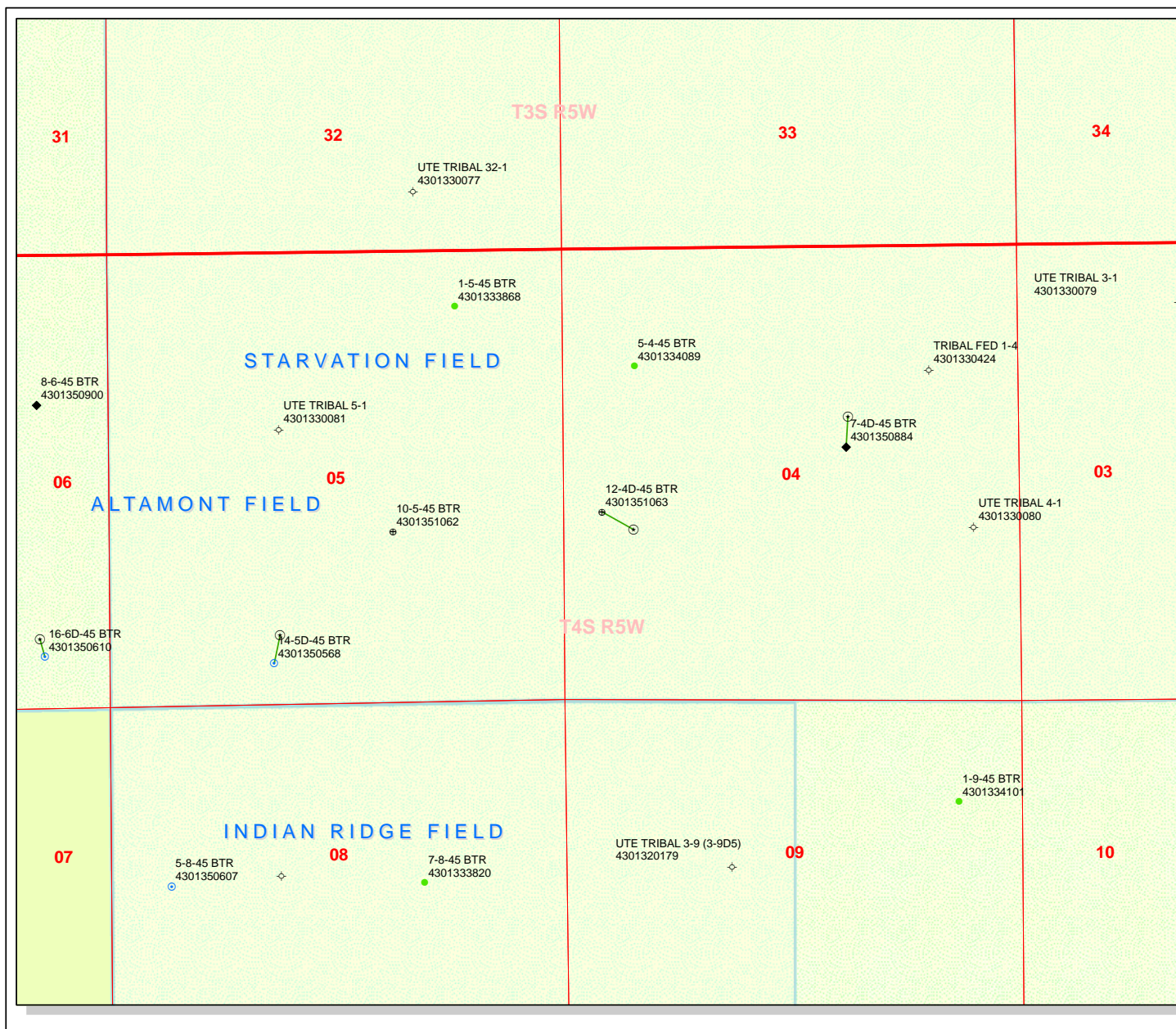


APPROXIMATE ACREAGES
 UN-RECLAIMED = ± 1.644 ACRES

 INTERIM RECLAMATION

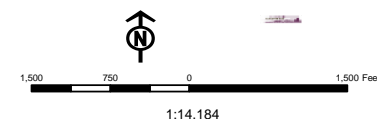
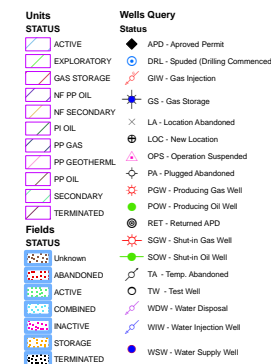
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 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: November 15, 2011



API Number: 4301351063
Well Name: 12-4D-45 BTR
Township T0.4 . Range R0.5 . Section 04
Meridian: UBM
Operator: BILL BARRETT CORP

Map Prepared:
 Map Produced by Diana Mason



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/15/2011**API NO. ASSIGNED:** 43013510630000**WELL NAME:** 12-4D-45 BTR**OPERATOR:** BILL BARRETT CORP (N2165)**PHONE NUMBER:** 303 312-8172**CONTACT:** Venessa Langmacher**PROPOSED LOCATION:** NWSW 04 040S 050W**Permit Tech Review:** ☒**SURFACE:** 2184 FSL 0448 FWL**Engineering Review:** ☐**BOTTOM:** 1980 FSL 0810 FWL**Geology Review:** ☒**COUNTY:** DUCHESNE**LATITUDE:** 40.16085**LONGITUDE:** -110.46320**UTM SURF EASTINGS:** 545713.00**NORTHINGS:** 4445748.00**FIELD NAME:** ALTAMONT**LEASE TYPE:** 2 - Indian**LEASE NUMBER:** 1420H626281**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER-WASATCH**SURFACE OWNER:** 2 - Indian**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**☒ **PLAT**☒ **Bond:** INDIAN - LPM8874725☐ **Potash**☐ **Oil Shale 190-5**☐ **Oil Shale 190-3**☐ **Oil Shale 190-13**☒ **Water Permit:** 43-180☐ **RDCC Review:**☐ **Fee Surface Agreement**☐ **Intent to Commingle****Commingle Approved****LOCATION AND SITING:**☐ **R649-2-3.****Unit:**☐ **R649-3-2. General**☐ **R649-3-3. Exception**☒ **Drilling Unit****Board Cause No:** Cause 139-85**Effective Date:** 3/11/2010**Siting:** 4 Prod LGRRV-WSTC Wells in Drl Unit☒ **R649-3-11. Directional Drill****Comments:** Presite Completed**Stipulations:** 4 - Federal Approval - dmason
15 - Directional - dmason**RECEIVED: November 22, 2011**



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: 12-4D-45 BTR
API Well Number: 43013510630000
Lease Number: 1420H626281
Surface Owner: INDIAN
Approval Date: 11/22/2011

Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-85. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Bill Barrett Corporation
Well No: 12-4D-45 BTR
API No: 43-013-51063

Location: NWSW, Sec. 4, T4S, R5W
Lease No: 14-20-H62-6281
Agreement: N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

Additional Stipulations:

- Production Equipment will be painted Beetle Green to help blend into the surrounding vegetation.
- All construction of the road and pipeline must stay within the approved area within the ROW application and approval by the Ute Tribe.
- On the 10-5-45 BTR location, Bill Barrett Corp. will install 3 culverts, one 24-inch diameter and two 36-inch culverts (as shown on the TOPO "B" well plat in the application for permit to drill).
- On the 1-10D-45 BTR well location, Bill Barrett Corp. will pull in well pad corner #6 by at least 6feet to reduce fill on that side on the pad. Also the topsoil on this pad will be moved from corners #2 and #3 to near pit corner #C to minimize amount of unconsolidated topsoil on the steeper slopes.
- See Exhibit One of the approved EA U&O-FY12-Q2-071 for additional mitigation measures that must be followed for the proposed road and pipeline. There are also site specific COAs of concern towards the back of that document that must be adhered to.

General Conditions of Approval:

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipelines.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- Bill Barrett Corporation will implement a "Safety and Emergency Plan." The Company's safety director will ensure its compliance.

- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COA's, and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- A CBL shall be run from TD to TOC on the production casing.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 12-4D-45 BTR
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2184 FSL 0448 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013510630000
5. FIELD and POOL or WILDCAT: ALTAMONT		6. COUNTY: DUCHESNE
7. STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/1/2012	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 BBC requests to change the approved 10-3/4" surface casing to 9-5/8" at 2800'. Please see revised casing and cementing programs attached.

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: October 16, 2012
By: *Derek Quist*

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 10/15/2012	

12-4D-45 BTR**Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u> <u>(FROM)</u> <u>(TO)</u>		<u>Casing</u> <u>Size</u>	<u>Casing</u> <u>Weight</u>	<u>Casing</u> <u>Grade</u>	<u>Thread</u>	<u>Condition</u>
26"	Surface	80'	16"	65#			
12 1/4"	Surface	2,800'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 410 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft ³ /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft ³ /sx), calculated hole volume with 75% excess. TOC @ 2,300'
5 1/2" Production Casing	Lead: 670 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft ³ /sx). TOC @ 2,300' Tail: 830 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft ³ /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 6,334'



Bill Barrett Corporation

LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

Well Name: 12-4D-45 BTR

Surface Hole Data:

Total Depth:	2,800'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

Calculated Data:

Lead Volume:	1260.6	ft ³
Lead Fill:	2,300'	
Tail Volume:	274.0	ft ³
Tail Fill:	500'	

Cement Data:

Lead Yield:	3.16	ft ³ /sk
% Excess:	75%	
Top of Lead:	0'	

Calculated # of Sacks:

# SK's Lead:	410
--------------	-----

Tail Yield:	1.36	ft ³ /sk
% Excess:	75%	
Top of Tail:	2,300'	

# SK's Tail:	210
--------------	-----

Production Hole Data:

Total Depth:	9,409'
Top of Cement:	2,300'
Top of Tail:	6,334'
OD of Hole:	8.750"
OD of Casing:	5.500"

Calculated Data:

Lead Volume:	1528.4	ft ³
Lead Fill:	4,034'	
Tail Volume:	1165.2	ft ³
Tail Fill:	3,075'	

Cement Data:

Lead Yield:	2.31	ft ³ /sk
Tail Yield:	1.42	ft ³ /sk
% Excess:	50%	

Calculated # of Sacks:

# SK's Lead:	670
# SK's Tail:	830

12-4D-45 BTR Proposed Cementing Program
--

<u>Job Recommendation</u>	<u>Surface Casing</u>
Lead Cement - (2300' - 0')	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft ³ /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 2,300'
	Volume: 224.50 bbl
	Proposed Sacks: 410 sks
Tail Cement - (TD - 2300')	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft ³ /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 2,300'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	Proposed Sacks: 210 sks

<u>Job Recommendation</u>	<u>Production Casing</u>
Lead Cement - (6334' - 2300')	
Tuned Light TM System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft ³ /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 2,300'
	Calculated Fill: 4,034'
	Volume: 272.21 bbl
	Proposed Sacks: 670 sks
Tail Cement - (9409' - 6334')	
Econocem TM System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft ³ /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 6,334'
	Calculated Fill: 3,075'
	Volume: 207.52 bbl
	Proposed Sacks: 830 sks

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# Triple A Drilling
Submitted By Venessa Langmach Phone Number 303-312-8172
Well Name/Number 12-4D-45 BTR
Qtr/Qtr NWSW Section 4 Township 4S Range 5W
Lease Serial Number 1420H626281
API Number 4301351063

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 11/09/2012 8:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time _____ AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

RECEIVED

NOV 07 2012

DIV. OF OIL, GAS & MINING

Date/Time _____ AM ☐ PM ☐

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: 12-4D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013510630000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2184 FSL 0448 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/9/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> APD EXTENSION	
	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This well was spud on 11/9/2012 at 8:00 am by Triple A Drilling.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 16, 2012		
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 11/15/2012	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: Bill Barrett Corporation Operator Account Number: N 2165
Address: 1099 18th Street, Suite 2300
city Denver
state CO zip 80202 Phone Number: (303) 312-8172

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351063	12-4D-45 BTR		NWSW	4	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	<u>new</u>	<u>18813</u>	11/9/2012			<u>11/15/2012</u>	
Comments: Spudding Operation was conducted by Triple A Drilling @ 8:00 am. <u>GR-WS BHL: NWSW</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351092	9H-4-45 BTR		NWSW	4	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	<u>new</u>	<u>18814</u>	11/10/2012			<u>11/15/2012</u>	
Comments: Spudding Operation was conducted by Triple A Drilling @ 3:00 pm. <u>GRRV BHL: nese</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A** - Establish new entity for new well (single well only)
- B** - Add new well to existing entity (group or unit well)
- C** - Re-assign well from one existing entity to another existing entity
- D** - Re-assign well from one existing entity to a new entity
- E** - Other (Explain in 'comments' section)

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

Title

5/16/2012

Date

RECEIVED

NOV 15 2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 12-4D-45 BTR
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2184 FSL 0448 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013510630000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/31/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Attached is the January 2013 monthly drilling report for this well.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 February 11, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 2/5/2013	

**12-4D-45 BTR 1/26/2013 06:00 - 1/27/2013 06:00**

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 0.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	21	OPEN	
20:00	10.00	06:00	1	RIGUP & TEARDOWN	Rig down.

12-4D-45 BTR 1/27/2013 06:00 - 1/28/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 0.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	1	RIGUP & TEARDOWN	RDMO. Moved mud storage tanks, mud, pipe, piperacks, catwalk, bop, gasbuster, koomey house, parts house, junk baskets. Crane on loc, rig down windwalls. Snowing, roads slick, trucks chaining up & down.

12-4D-45 BTR 1/28/2013 06:00 - 1/29/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 0.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	13.00	19:00	1	RIGUP & TEARDOWN	Derrick laid over, moved pits, light plant, pumps, boiler. Move camps, staged most of rig to loc near new loc. Roads very slick, got 75% of rig off loc.
19:00	11.00	06:00	1	RIGUP & TEARDOWN	Wait on daylight.

12-4D-45 BTR 1/29/2013 06:00 - 1/30/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 0.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	13.00	19:00	1	RIGUP & TEARDOWN	MIRU. Move everything off old loc except DP. Pits set, rig 10% rigged up. Most of rig on adjacent location.
19:00	11.00	06:00	1	RIGUP & TEARDOWN	Wait on daylight.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
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3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 12-4D-45 BTR
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2184 FSL 0448 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013510630000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/28/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

February 2013 monthly drilling report attached.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 March 06, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 3/5/2013	

**12-4D-45 BTR 2/1/2013 06:00 - 2/2/2013 06:00**

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	1	RIGUP & TEARDOWN	Continue rigging up. N/U conductor and flowline. Do prespud inspection.

12-4D-45 BTR 2/2/2013 06:00 - 2/3/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	16.00	22:00	8	REPAIR RIG	Wait on electrician to troubleshoot and repair VFD and topdrive inverter.
22:00	3.00	01:00	20	DIRECTIONAL WORK	P/U Bit & motor, make up stand for kelly.
01:00	1.50	02:30	2	DRILL ACTUAL	Drill 95-107'.
02:30	0.50	03:00	7	LUBRICATE RIG	Rig Service
03:00	3.00	06:00	2	DRILL ACTUAL	Drilling 107-178'.

12-4D-45 BTR 2/3/2013 06:00 - 2/4/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	20	DIRECTIONAL WORK	P/U Dir equip and orient.
08:00	21.50	05:30	2	DRILL ACTUAL	Drill/slide 178-1239'. Survey @ 1074' .74* inc 136.51* az MW 8.9#/gal 35 vis 10.1 PH.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig service.

12-4D-45 BTR 2/4/2013 06:00 - 2/5/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/Slide 1239-1792'. 553' in 11.5 hrs 48 fph. survey @ 1719' .43* inc. 173.5* az MW 9#/gal 36 vis 10.2 ph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service.
18:00	10.00	04:00	2	DRILL ACTUAL	Drill/Slide 1792-2172' 380' in 10 hrs 38 fph. Survey @ 2099' 1.14* inc 192.28* az. MW 8.8#/gal 34 vis 10.4 ph
04:00	0.50	04:30	7	LUBRICATE RIG	Rig Service
04:30	1.50	06:00	2		Drill/Slide 2172-2219'. Survey @ 2099' 1.14* inc 192.28* az. MW 8.8#/gal 34 vis 10.4 ph

12-4D-45 BTR 2/5/2013 06:00 - 2/6/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Drill/Slide 2219-2552'. 333' in 9.5 hrs 35 fph. survey @ 2480' 1.01* inc 177.75* ax MW 8.8#/gal 35 vis 10.4 ph.
15:30	0.50	16:00	7	LUBRICATE RIG	Service rig. Check load bearing in top drive.
16:00	7.00	23:00	2	DRILL ACTUAL	Drill/Slide 2252-2815'. Survey @ 2742' 1.3* inc 134.85* az. MW 8.8#/gal 35 vis 10.4 PH
23:00	1.00	00:00	5	COND MUD & CIRC	Pump sweeps and clean hole.
00:00	4.50	04:30	6	TRIPS	TOH. L/D 8" BHA. L/D 8" dir equipment
04:30	1.50	06:00	12	RUN CASING & CEMENT	Rig up csg crew and prep to run sfc casing.

12-4D-45 BTR 2/6/2013 06:00 - 2/7/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	12	RUN CASING & CEMENT	Run casing. Run 64 jts 9 5/8" 36# J55 casing with 1 jt shoe. Land @ 2810'. Circulate while rigging up HES. Cmt as follows; 5 bbls water, P-test to 5500#, pump 10 bbl water spacer, 40 bbl superflush, 10 bbl spacer, 460 sks (259 bbls) 11# lead cmt, 240 sks (283 BBLs) tail cmt. Drop Top plug, Displace with 214 bbls mud. Final pumping pressure 600#. Bump plug to 1200#. Bleed off and check floats. Had full returns thruout jod. app 150 bbls cmt returned. Wait 1 hr. Top out with 100 sks G with 2% cal..
18:00	5.00	23:00	13	WAIT ON CEMENT	WOC
23:00	7.00	06:00	14	NIPPLE UP B.O.P	N/D Conductor. Cut off csg Weld on csg head. N/U BOP

12-4D-45 BTR 2/7/2013 06:00 - 2/8/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	14	NIPPLE UP B.O.P	N/U BOP
09:00	6.00	15:00	15	TEST B.O.P	Test BOP, tested upper & lower Kelly valves, safety valve, inside BOP, Pipe rams, blind rams, HCR valve, kill line valves, choke line valves and manifold to 5k high and 250# Low Test annular to 2500 and csg to 1500# and power choke to 500# all tested good.
15:00	3.50	18:30	20	DIRECTIONAL WORK	P/U PDC Logic PLT6160 and Hunting Double Tough 1.5* fixed bend motor. Pickup Dir eq. and orient.
18:30	3.50	22:00	6	TRIPS	TIH tag float @ 2762' Drill out float equip and drill to 2835'. Spot pill on bottom dp FIT to 10.5# EMW (250psi) Held for 10 min.
22:00	7.00	05:00	2	DRILL ACTUAL	Drill/Slide 2835-3390'. Survey @ 3171' 4.54* inc 125.77 az MW 8.9#/gal 47 vis 10 PH

12-4D-45 BTR 2/8/2013 06:00 - 2/9/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/Slide 3390-4244'. 854 fet 11.5 hrs 74 fph. survey @ 4183 8.79* inc 114.93* az MW 9.1 #/gal 44 vis 8.2 ph 2.5 #/bbl dap
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, Function test BOP
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/slide 4244-5065'. 821' in 11.5 hrs 71 fph. Survey @ 4877 8.25* inc 112.8* az MW9.0#/gal 44 vis 8.1 ph 3.2#/bbl dap.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig service, Function test BOP

12-4D-45 BTR 2/9/2013 06:00 - 2/10/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/Slide 5065-5571'. Survey @ 5510' 6.85* inc 111.92 az MW 9#/gal 45 vis 8 PH 3.7 #/bbl dap
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, Function test BOP.
18:00	11.50	05:30			Drill/Slide 5571-6141'. Survey @ 6016 4.86* inc 113.22* az. MW8.9#/gal 46 vis 7.9 PH 3.9 #/bbl DAP.
05:30		05:30			Rlg Service, Function test BOP.

12-4D-45 BTR 2/10/2013 06:00 - 2/11/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/Slide 6141-6873'. Survey 6838' 1.88 inc 241.12 az MW 9.2#/gal 44 vis 7.9 ph 4 #/bbl dap.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service Function test BOP
18:00	10.50	04:30	2	DRILL ACTUAL	Drig 6853-7373'. Survey @ 7280' 1.35* inc 213.63 az MW 9.4#/gal 43 vis 7.8 ph 4 ppb dap. Increase MW to keep gas down
04:30	0.50	05:00	7	LUBRICATE RIG	Rig service. Function test BOP
05:00	1.00	06:00	2	DRILL ACTUAL	Drig 7373-7405'.

**12-4D-45 BTR 2/11/2013 06:00 - 2/12/2013 06:00**

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	2	DRILL ACTUAL	Drill/Slide 7405-7658'. Survey @ 7660' 1.66" inc 266.56 az MW 9.3#/gal 7.8 ph 3.5 #/bbl dap. Heavy seeping mixing LCM to 20%
13:00	0.50	13:30	7	LUBRICATE RIG	Rig service. Function test BOP
13:30	16.50	06:00	2	DRILL ACTUAL	Drill/Slide 7658-8164'. 759' for day. Survey @ 8103 .69 inc 291.85 az. MW 9.4#/gal 46 vis 7.8 ph 3.5 #/bbl dap. Fighting heavy seeping. LCM content 20%. Lost app 950 bbls throughout day.

12-4D-45 BTR 2/12/2013 06:00 - 2/13/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Drill/Slide 8164-8512'. survey @ 8483'. 1.4" inc 215.24 az MW 9.4#/gal 45 vis 7.8 ph 3.5 #/bbl dap. 22% lcm.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig service function test BOP.
17:00	11.00	04:00	2	DRILL ACTUAL	Drill/Slide 8512-8893'. Survey @ 8832 2.84" inc 197.4 az MW 9.4+#/gal 47 vis 7.7 ph 3.5#/bbl dap 30% LCM.

12-4D-45 BTR 2/13/2013 06:00 - 2/14/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	7	LUBRICATE RIG	Rig Service, Function test BOP
06:30	8.50	15:00	6	TRIPS	Make wiper trip to csg shoe Trip was smooth. Hole took proper amount of mud. TIH.
15:00	2.50	17:30	5	COND MUD & CIRC	Circulate, pump 2 high vis sweeps 30 min apart. Hole cleaned up good.
17:30	9.50	03:00	6	TRIPS	TOH wet. No dryjob. L/D dir equipment.
03:00	3.00	06:00	11	WIRELINE LOGS	Rig up HES wireline and log well.

12-4D-45 BTR 2/14/2013 06:00 - 2/15/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	11	WIRELINE LOGS	Log well w/HES open hole loggers. Ran Spectral density, Dual spaced neutron, Sonic array, Micro spherically focused log, Dual laterolog, Gamma ray. Resistivity wasn't working, started out to replace, started working. went back to bottom and relogged. R/D HES.
12:00	1.00	13:00	7	LUBRICATE RIG	Pull wear bushing. Service Rig.
13:00	8.00	21:00	12	RUN CASING & CEMENT	HSM. R/U Frank's, run 5 1/2", 17#, P-110, LT&C csg as follows: Float shoe, 2 jts csg, float collar, 11 jts csg, MJ, 8 jts csg. Filled pipe, pipe was plugged. Pooh, stood back 6 doubles, l/d shoe track, flt equip(ruined). X/O Frank's tongs.
21:00	9.00	06:00	12	RUN CASING & CEMENT	P/U new flt equip, run csg as follows: FS, 2 jts csg, FC, 11 jts csg, MJ @ 8288', 18 jts csg, MJ @ 7461', 15 jts csg, MJ @ 6765', 151 jts csg(197 jts total).

12-4D-45 BTR 2/15/2013 06:00 - 2/16/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	12	RUN CASING & CEMENT	Finish running csg - P/U jt # 298, tag bottom @ 8893', L/D jt # 298. Lost flow @ 2500'.
06:30	4.00	10:30	5	COND MUD & CIRC	Pump @ 30 strokes, no returns. Building volume & adding small particle lcm while HES rigs up. Got returns @ 08:30. HES had issues with frozen valves, lines on superflush truck.
10:30	3.50	14:00	12	RUN CASING & CEMENT	HSM. Pressure test lines to 5000 psi. Pump 40 bbls super flush, 10 bbl H2O spacer, 715 sx(295.4 bbls) lead cement @ 11 ppg, 2.32 yld, 10.61 gps H2O. Mix and pump 610 sx(155.4 bbls) tail cement @ 13.5 ppg, 1.43 yld, 6.65 gps H2O. Shut down, wash up to pit, drop plug. Pump 204 bbls H2O displacement, Bumped plug @ 1900 psi, pressured to 2400 psi. Bled back 2 bbls, floats held. Had 70% returns until displacement, lost completely. R/D Halliburton.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:00	4.00	18:00	14	NIPPLE UP B.O.P	NDBOP, lift stack. Set slips on 5 1/2" csg w/175k. Rough cut csg, install night cap. Clean pits. Rig released @ 18:00.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: 12-4D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013510630000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2184 FSL 0448 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/1/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the March 2013 Drilling Activity for this well.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 April 05, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 4/5/2013

**12-4D-45 BTR 3/13/2013 06:00 - 3/14/2013 06:00**

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	IWHD	Install Wellhead	CLEAN CELLAR. CHECK PRESSURE. ND 11" NIGHT CAP. MAKE FINAL CUT ON 5-1/2" CSG. INSTAL 7" 5K TBG HEAD. PRES TEST VOID. GOOD. INSTALL 7" NIGHT CAP.
09:00	21.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION.

12-4D-45 BTR 3/14/2013 06:00 - 3/15/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	MIRU SLB. RIH W/ GR/JB. TAG AT 8745', (DRLG SHOW FC AT 8797') HAVE 52' FILL. RIH W/ CBL/GR/TEMP/CCL. FIND SHORT JTS AT 6741'-6763', 7437'-7455', AND 8260'-8281'. REPEAT PAS 8745'-8500'. CMT BOND SHOWS TD-7050' GOOD, 7050'-6750' FAIR, 6750'-5400' GOOD, 5400'-4850' FAIR, 4850'-4600' RATTY, 4600'-4400' GAIR, 4400'-4206' RATTY, TOC 4206'. CBL RUN WITH PRES. MAX TEMP 213*, MAX PSI 4559 PSI. RD AND SECURE WELL.

12-4D-45 BTR 3/15/2013 06:00 - 3/16/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

12-4D-45 BTR 3/16/2013 06:00 - 3/17/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

12-4D-45 BTR 3/17/2013 06:00 - 3/18/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

12-4D-45 BTR 3/18/2013 06:00 - 3/19/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

12-4D-45 BTR 3/19/2013 06:00 - 3/20/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

12-4D-45 BTR 3/29/2013 06:00 - 3/30/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Construction Crew Working On Facilities. Finish Setting Frac Line/Filling

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 12-4D-45 BTR
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2184 FSL 0448 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013510630000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/8/2013	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME		
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well had first gas sales on 4/8/2013.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
April 26, 2013

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 4/10/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: 12-4D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013510630000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2184 FSL 0448 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

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<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/13/2013	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well had first oil sales on 4/13/2013.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 April 26, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 4/15/2013

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: 12-4D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013510630000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2184 FSL 0448 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

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TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/30/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the April 2013 Drilling Activity for this well.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 May 03, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 5/3/2013

**12-4D-45 BTR 4/1/2013 06:00 - 4/2/2013 06:00**

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Construction Crew Working On Facilities. Loading Acid. Filling Frac Line.

12-4D-45 BTR 4/2/2013 06:00 - 4/3/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Construction Crew Working On Facilities. Finish Filling Frac Line. Set Sand Storage.

12-4D-45 BTR 4/3/2013 06:00 - 4/4/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HEAT FRAC LINE. PRES TEST FLOW BACK EQUIP.

12-4D-45 BTR 4/4/2013 06:00 - 4/5/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	SRIG	Rig Up/Down	HSM. MIRU SLB. WAS GOING TO PERF 9H-4-45 BUT HAD TROUBLES WITH ERS. RD 10K LUBE. RU 5K LUBE.
11:00	2.00	13:00	PFRT	Perforating	PU GUNS FOR STG 1. RIH AND CORRELATE TO SJ AT 8260'-8281'. RUN DOWN AND PERF CR-4, CR-4A, AND CR-5 FORM 8521'-8744' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT WELL IN.
13:00	18.00	07:00	SRIG	Rig Up/Down	MIRU BASIC FRAC FLEET. PREP TO FRAC IN AM.

12-4D-45 BTR 4/5/2013 06:00 - 4/6/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	SMTG	Safety Meeting	HSM. HIGH PRESSURE, RED ZONE, ACID, OVERHEAD LOADS, EXPLOSIVES. RUN QC ON FLUIDS. HAVE LEAK IN SEABORD VALVE ON FRAC CAP. CALL FOR NEW CAP. REPLACE AND PRES TEST TO 9300 PSI.

Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	2.50	12:30	FRAC	Frac. Job	FRAC STG #1- CR-4, CR-4A, AND CR-5 PERFS 8521'-8746' 48 HOLES IN 16' NET. PRESSURE TEST LINES TO 9300 PSI. LOAD 90 BALLS. OPEN WELL W/ 10 PSI AT 10:24 BREAK DOWN 3300 PSI AT 5.7 BPM. PMP 92.8 BBL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 2213 PSI. FLUSH W/ 198.8 BBL. 33.4 BPM AT 3700 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 15 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 63.9 BPM AT 4290 PSI. ISIP 2740. FG .75. PERFS OPEN 41/45. CONT FR PAD. 63.4 BPM AT 4150 PSI. STAGE HYBOR PAD 63.2 BPM AT 4080 PSI. STAGE TO 2 PPA 20/40 WHITE. 64.5 BPM AT 4450 PSI. ON PERFS 64.0 BPM AT 4170 PSI. STAGE TO 3 PPA 20/40 WHITE. 64.6 BPM AT 3990 PSI. ON PERFS 64.2 BPM AT 3980 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 62.7 BPM AT 3850 PSI. ON PERFS 63.5 BPM AT 3550 PSI. STAGE TO 4 PPA 20/40 WHITE. 63.1 BPM AT 3520 PSI. ON PERFS 65.0 BPM AT 3590 PSI. FLUSH 65.6 BPM AT 5200 PSI. WSI WITH 2850 PSI. TURN OVER TO WIRES LINE. ISDP 2850 FG .76 MAX RATE 68.6 BPM MAX PRES 8470 PSI AVE RATE 46.9 BPM AVE PRES 3826 PSI PMP 149,150 LBS 20/40 WHITE. 425 LBS SCALE SORB 3 SLK WTR 1567.5 BBL XL FLUID 1563 BBL BWTR 3212.6 BBLS
12:30	1.00	13:30	PFRT	Perforating	PERF STG #2- PU EXELIS 5-1/2" CFP AND GUNS FOR STAGE 2 INTO LUB AND EQUALIZE 2850 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 8260'-8281'. RUN DOWN AND SET CBP AT 8510' WITH 2600 PSI. PULL UP AND PERF CR-3 AND CR-4 FORM 8225'-8299' WITH 30 HOLES IN 10' NET. SHOT GUN #10 AND MOVED UP BECAME STUCK. WORKED DOWN THEN CAME BACK UP AND BECAME STUCK AGAIN. WOULD NOT GO UP OF DOWN. GUN #11 WAS 2' LOW. PULL TENSION AND SHOOT PERF AT 8291'. GUN DID NOT COME FREE. PUMP DOWN CSG TO 6 BPM AT 4000 PSI ATTEMPTING TO MOVE GUN. NO SUCCESS. SURGE WELL ATTEMPTING TO MOVE GUN. NO SUCCESS.
13:30	4.50	18:00	GOP	General Operations	HSM. CLEAR AREA AROUND WELL HEAD. PULL TO 3900# TO SHEAR WEAK POINT. POOH W/ CABLE. RECOVERED WEAK POINT AND SPRING. CLEAN FISH TOP AT 8274'. 2.31" OD X 2' L FISH NECK. OAL OF FISH 49'. PERF GUNS 3-1/8" OD SETTING TOOL 3.80" OD SETTING SLEEVE 4.5" OD. CLEAN UP AREA AND RD SLB.
18:00	3.00	21:00	DTIM	Downtime	WAITING FOR ROCKY MOUNTAIN TO FISH PERF GUN AND SETTING TOOL.
21:00	2.17	23:10	SRIG	Rig Up/Down	RMWS Arrive On Location, Hold Safety Meeting. MIRU Equipment And Fishing Tools. RigUp To Well, Equalize To Pressure, 2200#'s.
23:10	1.50	00:40	CTUW	W/L Operation	RIH With OverShot And Mechanical Jars. Tag TOF At 8,274'. Pull Up And Jar 4 Times, Gun Came Free. POOH. No Signs Of Sand On Gun When On Surface.
00:40	3.08	03:45	SRIG	Rig Up/Down	RigDown RMWS, MOL. Bring SLB WireLine And Equipment Back On Location, Hold Safety Meeting. MIRU, Arm Stage 2 4 Gun String, Nipple Up To WellHead, Equalize To Pressure.
03:45	1.34	05:05	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 02-14-2013 And SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Short Joint At 8,260 - 8,281'. Drop Down To Depth, Perforate Stage 2 CR-3 Zone, 8,270 - 8,271', 8,258 - 8,259', 8,241 - 8,242', 8,225 - 8,226'. 8 Holes. 350 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
05:05	0.42	05:30	GOP	General Operations	Well Turned Over To Basic. Change Out Crews, Hold Safety Meeting. Pressure Test To 8500#. Equalize, Open To Well.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
05:30	0.50	06:00	FRAC	Frac. Job	Frac Stage 2. Fluid System: Hybor G 16 Open Well, 1,432 Psi. ICP. BrokeDown At 10.0 Bpm And 2,071 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall.

12-4D-45 BTR 4/6/2013 06:00 - 4/7/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	FRAC	Frac. Job	FRAC STG #2- CR-3 AND CR-4 PERFS 8225'-8487' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 470 PSI AT 06:24 BREAK DOWN 2310 PSI AT 5.9 BPM. PMP 92.8 BBL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 11.5 BPM AT 3160 PSI. FLUSH W/ 210 BBL. 31.9 BPM AT 3510 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 15 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 62.9 BPM AT 4040 PSI. ISIP 2490. FG .73. PERFS OPEN 30/45. CONT FR PAD. 762.6 BPM AT 3940 PSI. STAGE HYBOR PAD 64.4 BPM AT 4520 PSI. STAGE TO 2 PPA 20/40 WHITE. 62.7 BPM AT 4400 PSI. ON PERFS 63.1 BPM AT 4100 PSI. STAGE TO 3 PPA 20/40 WHITE. 62.3 BPM AT 3900 PSI. ON PERFS 62.3 BPM AT 3580 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 63.1 BPM AT 3670 PSI. ON PERFS 66.7 BPM AT 3620 PSI. STAGE TO 4 PPA 20/40 WHITE. 61.6 BPM AT 3610 PSI. ON PERFS 61.7 BPM AT 3600 PSI. FLUSH 62.7 BPM AT 4950 PSI. WSI WITH 2630 PSI. TURN OVER TO WIRELINE. ISDP 2860 FG .78 MAX RATE 70.5 BPM MAX PRES 4166 PSI AVE RATE 70.1 BPM AVE PRES 3666 PSI PMP 150,600 LBS 20/40 WHITE. 425 LBS SCALE SORB 3 SLK WTR 1640 BBL 20# HYBOR G (16) 1704 BBL (TOTAL FLUID 3457.4 BBL) BWTR 3410.9
09:00	1.75	10:45	PFRT	Perforating	PERF STG #3- PU HES 5-1/2" CBP AND GUNS FOR STAGE 3 INTO LUB AND EQUALIZE 2300 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7437'-7455'. RUN DOWN AND SET CBP AT 8218' WITH 2200 PSI. PULL UP AND PERF CR-2 AND CR-3 FORM 7908'-8200' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO BASIC WITH 2200 PSI.

Start Time	Dur (hr)	End Time	Code	Category	Com
10:45	2.25	13:00	FRAC	Frac. Job	<p>FRAC STG #3- CR-2 AND CR-3 PERFS 77908'-8200' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 1870 PSI AT 11:19 BREAK DOWN 3470 PSI AT 5.2 BPM. PMP 92 BBL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 11.9 BPM AT 4340 PSI. FLUSH W/ BBL. 29.9 BPM AT 4330 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 15 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 64.4 BPM AT 3840 PSI. ISIP 2630. FG .77. PERFS OPEN 36/45. CONT FR PAD. 64.6 BPM AT 3820 PSI. STAGE HYBOR PAD 64.4 BPM AT 4060 PSI. STAGE TO 2 PPA 20/40 WHITE. 65.1 BPM AT 4100 PSI. ON PERFS 63.1 BPM AT 3830 PSI. STAGE TO 3 PPA 20/40 WHITE. 59.7 BPM AT 3490 PSI. ON PERFS 58.8 BPM AT 3500 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 58.8 BPM AT 3520 PSI. LOST SUCTION ON 2%-CUT SAND. GO TO FLUSH, FLUSH 35 BPM UP TO 45 BPM AT 3200 PSI. OVER FLUSH BY 20 BBLS. WSI WITH 2800 PSI. TURN OVER TO WIRELINE.</p> <p>ISDP 2820 FG .78 MAX RATE 64.5 BPM MAX PRES 5445 PSI AVE RATE 45.7 BPM AVE PRES 3749 PSI PMP 106,880 LBS 20/40 WHITE. 225 LBS SCALE SORB 3 SLK WTR 1630 BBLS 20# HYBOR G (16) 1211 BBL BWTR 2933 BBLS</p>
13:00	1.50	14:30	PFRT	Perforating	<p>PERF STG #4- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 4 INTO LUB AND EQUALIZE 2600 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7437'-7455'. RUN DOWN AND SET CBP AT 7888' WITH 2500 PSI. PULL UP AND PERF CR-2 AND CR-3 FORM 7619'-7868' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO BASIC WITH 2400 PSI.</p>
14:30	1.75	16:15	FRAC	Frac. Job	<p>FRAC STG #4- CR-2 PERFS 7149'-7390' 45 HOLES IN 13' NET. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 2280 PSI AT 14:43 BREAK DOWN 2410 PSI AT 5.2 BPM. PMP 93 BBLS 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 12.1 BPM AT 2520 PSI. FLUSH W/ 178.2. 31.6 BPM AT 2930 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 15 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 63.2 BPM AT 5160 PSI. ISIP 2480. FG .75. PERFS OPEN 21/45. CONT FR PAD. 64.7 BPM AT 4570 PSI. STAGE HYBOR PAD 62.8 BPM AT 3980 PSI. STAGE TO 2 PPA 20/40 WHITE. 61.8 BPM AT 4080 PSI. ON PERFS 62.8 BPM AT 3570 PSI. STAGE TO 3 PPA 20/40 WHITE. 63.1 BPM AT 3440 PSI. ON PERFS 64.8 BPM AT 3120 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 65.8 BPM AT 3360 PSI. ON PERFS 65.1 BPM AT 3380 PSI. STAGE TO 4 PPA 20/40 WHITE. 66.6 BPM AT 3370 PSI. ON PERFS 63.6 BPM AT 3380 PSI. FLUSH 63.5 BPM AT 5250 PSI. WSI WITH 2400 PSI. TURN OVER TO WIRELINE.</p> <p>ISDP 2430 FG .75 MAX RATE 62.5 BPM MAX PRES 6210 PSI AVE RATE 59.7 BPM AVE PRES 4000 PSI PMP 170,620 LBS 20/40 WHITE. 675 LBS SCALE SORB 3 SLK WTR 1121 BBL 20# HYBOR G (16) 1301 BBL BWTR 3175 BBLS</p>
16:15	1.34	17:35	PFRT	Perforating	<p>PERF STG #5- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 5 INTO LUB AND EQUALIZE 2300 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7437'-7455'. RUN DOWN AND SET CBP AT 7385' WITH 2200 PSI. PULL UP AND PERF CASTLE PEAK FORM 7209'-7369 WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO BASIC WITH 2200 PSI.</p>
17:35	0.42	18:00	GOP	General Operations	Well Turned Over To Basic. Change Out Crews, Hold Safety Meeting. Pressure Test To 8500#. Equalize, Open To Well.



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
18:00	0.67	18:40	FRAC	Frac. Job	Acidize Stage 5. Open Well, 1,800 Psi. ICP. BrokeDown At 6.7 Bpm And 3,260 Psi.. Pump 15,000 Gals. 15% HCL Drop 120 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,040 Psi.. 0.71 Psi./Ft. F.G.. WSI And Secured. Total Clean - 23,100 Gals.. 550 Bbls.. BWTR - 550 Bbls. Max. Rate - 48.4 Bpm Avg. Rate - 23.0 Bpm Max. Psi. - 8,630 Psi. Avg. Psi. - 3,911 Psi.
18:40	0.16	18:50	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
18:50	1.17	20:00	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 02-14-2013 And SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Short Joint At 6,741 - 6,763'. Drop Down To Depth, Set CBP At 7,198', 1,650 Psi.. Perforate Stage 6 Castle Peak/Black Shale Zone, 7,030 - 7,184'. 42 Holes. 1,500 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
20:00	0.08	20:05	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well.
20:05	0.50	20:35	FRAC	Frac. Job	Acidize Stage 6. Open Well, 1,440 Psi. ICP. BrokeDown At 10.6 Bpm And 1,900 Psi.. Pump 15,000 Gals. 15% HCL Drop 120 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 1,490 Psi.. 0.64 Psi./Ft. F.G.. WSI And Secured. Total Clean - 23,100 Gals.. 550 Bbls.. BWTR - 550 Bbls. Max. Rate - 50.0 Bpm Avg. Rate - 24.2 Bpm Max. Psi. - 8,890 Psi. Avg. Psi. - 3,610 Psi.
20:35	9.42	06:00	SRIG	Rig Up/Down	RigDown Off WellHead. Move Over To 9H-4-45 BTR. WSI And Secured.

12-4D-45 BTR 4/7/2013 06:00 - 4/8/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	WELL SHUT IN AS FRAC ON 9H-4-45.

12-4D-45 BTR 4/8/2013 06:00 - 4/9/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	19.00	01:00	GOP	General Operations	WELL SHUT IN AS FRAC 9H-4-45.
01:00	4.00	05:00	FBCK	Flowback Well	OPEN WELL TO FB TANKS. FLOW TILL PH AT 5 AND TRACE OF OIL. TURN TO PRODUCTION.
05:00	1.00	06:00	FBCK	Flowback Well	WELL FLOWING TO PRODUCTION. WAITING ON COIL TO D/O 9H-4-45. THEN RIG TO D/O PLUGS.

12-4D-45 BTR 4/9/2013 06:00 - 4/10/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	FBCK	Flowback Well	WELL FLOWING TO PRODUCTION AS D/O PLUGS ON 9H-4-45 WITH COIL TBG.

12-4D-45 BTR 4/14/2013 00:00 - 4/15/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
00:00	1.00	01:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
01:00	1.00	02:00	SRIG	Rig Up/Down	R/D RIG ON 4-9D-45 BTR. ROAD RIG TO LOCATION.
02:00	1.00	03:00	SRIG	Rig Up/Down	R/U RIG & EQUIPMENT.
03:00	2.00	05:00	BOPI	Install BOP's	SLIGHT BLOW ON WELL. N/D FRAC TREE. N/U BOP & HYDRILL. R/U FLOOR & EQUIPMENT. LOAD 283 JTS ON PIPE RACKS.
05:00	3.50	08:30	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS, 1 JT 2-7/8 TBG & XN- NIPPLE. RIH W/ BHA P/U NEW 2-7/8 L-80 TBG. TAG CBP @ 7198'.
08:30	4.00	12:30	DOPG	Drill Out Plugs	R/U POWER SWIVEL. BREAK CIRC. D/O CBP @ 7198', FCP- 200 ON 64/64 CHOKE. SWIVEL IN HOLE TO CBP @ 7385'. D/O PLUG, FCP- 200 ON 64/64 CHOKE. CIRC WELL CLEAN. PULL ABOVE PERFS. WELL DEAD. DRAIN UP EQUIPMENT. SWIFN.
12:30	11.50	00:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

12-4D-45 BTR 4/15/2013 06:00 - 4/16/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	7.00	14:00	DOPG	Drill Out Plugs	SICP- 150. BLEED DOWN CSG, WELL DEAD. RIH F/ TOP OF PERFS W/ 4-3/4 BIT. TAG SAND @ 7877'. R/U SWIVEL. BREAK CIRC. C/O SAND & D/O CBP @ 7888'. FCP- 150 ON 64/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 8200'. C/O SAND & D/O CBP @ 8218'. FCP- 250 ON 64/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 8475'. C/O SAND & D/O CBP @ 8510'. FCP- 200 ON 64/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 8747". C/O SAND, D/O FLOAT COLLAR @ 8796'. C/O CMT TO 8837'. CIRC WELL CLEAN. PUMPED 350 BBLS TOTAL. R/D SWIVEL. L/D 7 JTS. WELL DEAD.
14:00	2.00	16:00	PULT	Pull Tubing	POOH W/ BIT.
16:00	3.00	19:00	RUTB	Run Tubing	P/U TAC & BHA. RIH TO TOP OF PERFS. SDFN.
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

12-4D-45 BTR 4/16/2013 06:00 - 4/17/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	2.00	09:00	RUTB	Run Tubing	RIH F/ TOP OF PERFS W/ 5-1/2 1/4 TURN TAC & BHA. N/D BOP. SET TAC @ 8375'. S/N @ 8441'. EOT @ 8624'. R/U WELLHEAD. 263 JTS 2-7/8 TBG. TAC 1/4 TURN. 20K TENSION 2 JT 2-7/8 TBG. S/N. 4' PUP. DESANDER. 5 JTS 2-7/8 TBG. BULL PLUG.
09:00	1.50	10:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. CHAIN UP RIG. VERY MUDDY CONDITION.
10:30	2.00	12:30	RMOV	Rig Move	ROAD RIG TO FD15-7-2-2.
12:30	17.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE.

12-4D-45 BTR 4/17/2013 06:00 - 4/18/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL
07:00	1.00	08:00	DTIM	Downtime	WOO
08:00	2.00	10:00	RMOV	Rig Move	ROAD RIG TO LOCATION.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	2.00	12:00	SRIG	Rig Up/Down	SPOT AND RUSU. SPOT ROD TRAILER
12:00	3.00	15:00	GOP	General Operations	FLUSH TBG W/ 100 BBL (WELL CIRCULATING). BLEED OFF TBG.
15:00	3.00	18:00	RURP	Run Rods & Pump	PU AND PRIME 25-175-RHBC-36' PMP. RIH AS PU RODS. RAN 28) 1" W/ 4G, 128) 3/4" W/ 4G, 83) 7/8" W/ 4G. PU POLISH ROD AND SWFN.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

12-4D-45 BTR 4/18/2013 06:00 - 4/19/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51063	Utah	Duchesne	Black Tail Ridge	PRODUCING	8,893.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL
07:00	2.00	09:00	RURP	Run Rods & Pump	HSM. CONT RIH AS PU 96) 1" W/ 4G. SPACE OUT AND SEAT PUMP ROD DETAIL 1-1/2" X 30' POLISH ROD 1) 8', 1) 6', 1) 2' X 1" PONY RODS 96) 1" W/ 4G 83) 7/8" W/ 6G 128) 3/4" W/ 6G 28) 1" W/ 4G SHEAR CPLG 25-175-RHBC-20-4-21-24 PUMP
09:00	0.50	09:30	PTST	Pressure Test	FILL TBG W/ 5 BBLs. PRES TEST TO 1000 PSI. BLEED OFF. STROKE TEST TO 1000 PSI. GOOD
09:30	1.00	10:30	SRIG	Rig Up/Down	RDSU AND MOVE TO EDGE OF LOCATION
10:30	19.50	06:00	GOP	General Operations	CLEAN LOCATION AND R&M RIG EQUIP. CREW TRAVEL. WELL TURNED OVER TO PRODUCTION.

Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. 1420H626281		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator BILL BARRETT CORPORATION Contact: VENESSA LANGMACHER E-Mail: vlangmacher@billbarrettcorp.com			7. Unit or CA Agreement Name and No.		
3. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202			8. Lease Name and Well No. 12-4D-45 BTR		
3a. Phone No. (include area code) Ph: 303-312-8172			9. API Well No. 43-013-51063		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWSW 2184FSL 448FWL At top prod interval reported below NWSW 1971FSL 821FWL At total depth NWSW 1940FSL 791FWL			10. Field and Pool, or Exploratory ALTAMONT		
14. Date Spudded 11/09/2012			15. Date T.D. Reached 02/15/2013		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/08/2013			17. Elevations (DF, KB, RT, GL)* 5894 GL		
18. Total Depth: MD 8893 TVD 8864		19. Plug Back T.D.: MD 8798 TVD 8769		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL, GR, CCL			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	65.0	0	80					
12.250	9.625 J-55	36.0	0	2815	2810	680	303	0	
8.750	5.500 P-110	17.0	0	8893	8889	1325	450	4206	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	8623							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	7030	7369	7030 TO 7369	0.360	87	OPEN
B) WASATCH	7619	8787	7619 TO 8787	0.360	180	OPEN
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
7030 TO 7369	SEE ATTACHED STAGES 5-6
7619 TO 8787	SEE ATTACHED STAGES 1-4

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/08/2013	04/09/2013	24	→	138.0	105.0	556.0	52.0		FLOWES FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
24/64	0	165.0	→	138	105	556	760	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #207376 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER MAHOGANY DOUGLAS CREEK BLACK SHALE CASTLE PEAK UTELAND BUTTE WASATCH	3025 3706 6016 6824 7090 7396 7631

32. Additional remarks (include plugging procedure):

TOC was calculated by CBL. First gas sales were on 04/08/13 and first oil sales were on 04/13/13. Conductor cemented with grout. Attached is treatment data and end of well report.

33. Circle enclosed attachments:

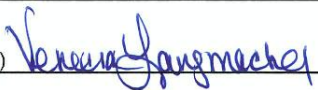
- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #207376 Verified by the BLM Well Information System.
For BILL BARRETT CORPORATION, sent to the Vernal

Name (please print) VENESSA LANGMACHERTitle SENIOR PERMIT ANALYST

Signature _____ (Electronic Submission)

Date 05/14/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

12-4D-45 BTR Completion Report Continued*

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)			
AMOUNT AND TYPE OF MATERIAL			
<u>Stage</u>	<u>BBS Slurry</u>	<u>gal 15% HCL Acid</u>	<u>lbs 20/40 White Sand</u>
1	3223		150,000
2	3457		160,000
3	2944		106,000
4	3182		155,520
5	538	15,000 w/ 120 balls	
6	549	15,456 w/ 120 balls	

*Depth intervals for frac information same as perforation record intervals.

CERTIFIED SURVEY WORK SHEET

OPERATOR:	Bill Barrett Corp.
WELL:	12-4D-45 BTR
FIELD:	BTR
RIG:	Nabors M22
LEGALS:	Sec. 4-T4S-R5W
COUNTY:	Duchesne
STATE:	Utah
CAL. METHOD:	Min. Curv.
MAG. DECL. APPLIED:	11.37°
VERTICAL SEC. DIR. :	278.190

SSDS Job Number :	9880945
Start Date of Job :	2/1/2013
End Date of Job :	2/15/2013
Lead Directional Driller:	Paul St.Onge
	Wesley Cline
Other SSDS DD's :	Glen Kumm
SSDS MWD Engineers :	Freddy Hale

Geo Pilot Engineer :

	Main Hole =====>	1st Side Track =====>	2nd Side Track =====>	3rd Side Track =====>	4th Side Track =====>
Surface Casing	2815.00	Tie-on	Tie On	Tie On	Tie On
First Wireline Survey	SS	MWD			
Last Wireline Survey	SS				
KOP Depth/Sidetrack MD	KOP	KOP-ST1	KOP-ST2	KOP-ST3	KOP-ST4
MWD Tie-on					
First MWD Survey Depth	153.00	MWD	MWD	MWD	MWD
Last MWD Survey Depth	8832.00	MWD	MWD	MWD	MWD
Bit Extrapolation @ TD	8893.00	T.D.	T.D.	T.D.	T.D.

The following Sperry Drilling Services personnel, certify the above survey information to be accurate to the best of our knowledge:

Print Name : Paul St.Onge

Print Name : Wesley Cline

Print Name : Glen Kumm

Sign Name :

Sign Name :

Sign Name :

Print Name : Freddy Hale

Print Name : 0.00

Print Name : Freddy Hale

Sign Name :

Sign Name :

Sign Name :

Examples of
Survey Types:TieOn
MWD
ESS
Gyro
SS

Tie On to Surface Casing (Assumed Vertical), Tie On to existing MWD Survey (prior drilled hole)
 Sperry-Sun Drilling Services (SSDS) Measurement While Drilling (MWD) Survey's
 Sperry-Sun Drilling Services (SSDS) Electronic Survey System (ESS) Survey's
 Gyro Survey's ; Provided by third party vendor, or by Sperry-Sun Drilling Services (SSDS)
 Single Shot (SS) Survey's ; Provided by Sperry-Sun Drilling Services (SSDS) or third party vendor.

HALLIBURTON

Duchesne County, UT (NAD 1927)

Design Report for 12-4D-45 BTR –Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00
153.00	0.27	236.810	153.00	-0.20	-0.30	-0.16	0.18
First Sperry MWD Survey @ 153.00' MD							
200.00	0.32	224.230	200.00	-0.35	-0.49	-0.25	0.17
246.00	0.21	206.300	246.00	-0.52	-0.61	-0.28	0.30
293.00	0.31	199.790	293.00	-0.72	-0.69	-0.25	0.22
339.00	0.24	195.340	339.00	-0.93	-0.76	-0.20	0.16
385.00	0.26	103.050	385.00	-1.04	-0.69	-0.08	0.78
431.00	0.65	64.510	431.00	-0.95	-0.35	0.17	1.03
477.00	0.78	69.720	476.99	-0.73	0.18	0.52	0.32
523.00	0.84	75.840	522.99	-0.54	0.80	0.96	0.23
569.00	0.95	80.970	568.98	-0.40	1.51	1.51	0.30
615.00	1.08	82.660	614.97	-0.28	2.31	2.15	0.29
662.00	1.14	84.670	661.97	-0.18	3.22	2.89	0.15
707.00	1.13	89.560	706.96	-0.14	4.11	3.64	0.22
753.00	1.04	96.180	752.95	-0.18	4.97	4.41	0.34
799.00	0.92	92.700	798.94	-0.24	5.76	5.12	0.29
845.00	0.81	99.550	844.94	-0.31	6.45	5.76	0.33
891.00	0.71	106.640	890.93	-0.45	7.04	6.34	0.30
937.00	0.81	131.450	936.93	-0.75	7.56	6.94	0.74
983.00	0.94	145.990	982.92	-1.28	8.01	7.59	0.56
1,029.00	0.87	147.120	1,028.92	-1.88	8.41	8.24	0.16
1,074.00	0.74	136.510	1,073.91	-2.38	8.80	8.82	0.44
1,120.00	0.59	133.430	1,119.91	-2.76	9.18	9.34	0.34
1,166.00	0.44	111.610	1,165.91	-2.99	9.51	9.74	0.53
1,213.00	0.48	101.380	1,212.91	-3.09	9.87	10.11	0.19
1,258.00	0.51	65.760	1,257.91	-3.05	10.24	10.41	0.68
1,304.00	0.48	75.180	1,303.90	-2.91	10.61	10.66	0.19
1,348.00	0.36	130.540	1,347.90	-2.96	10.90	10.93	0.92
1,395.00	0.38	171.450	1,394.90	-3.21	11.03	11.17	0.55
1,441.00	0.17	107.000	1,440.90	-3.38	11.12	11.33	0.75
1,486.00	0.34	25.830	1,485.90	-3.28	11.24	11.39	0.79
1,532.00	0.64	8.220	1,531.90	-2.90	11.34	11.29	0.72
1,577.00	0.42	359.550	1,576.90	-2.48	11.37	11.11	0.52
1,624.00	0.03	213.510	1,623.90	-2.32	11.36	11.02	0.95
1,671.00	0.31	176.630	1,670.90	-2.46	11.37	11.09	0.61
1,720.00	0.43	173.150	1,719.90	-2.77	11.39	11.27	0.25
1,766.00	0.62	152.760	1,765.89	-3.17	11.53	11.59	0.57
1,814.00	0.78	163.340	1,813.89	-3.71	11.74	12.04	0.43
1,861.00	0.65	167.630	1,860.89	-4.28	11.89	12.45	0.30
1,909.00	0.48	159.180	1,908.88	-4.73	12.02	12.79	0.39
1,956.00	0.36	159.130	1,955.88	-5.05	12.14	13.05	0.26
2,004.00	0.49	180.290	2,003.88	-5.40	12.20	13.27	0.42
2,051.00	0.89	196.070	2,050.88	-5.95	12.09	13.45	0.93
2,099.00	1.14	192.280	2,098.87	-6.78	11.89	13.68	0.54
2,146.00	1.12	195.920	2,145.86	-7.68	11.66	13.93	0.16
2,194.00	0.88	190.060	2,193.85	-8.49	11.47	14.17	0.54
2,241.00	0.50	172.820	2,240.85	-9.05	11.43	14.41	0.91
2,289.00	0.32	85.940	2,288.85	-9.25	11.59	14.65	1.21
2,337.00	0.75	66.440	2,336.85	-9.11	12.01	14.95	0.96

HALLIBURTON

Duchesne County, UT (NAD 1927)

Design Report for 12-4D-45 BTR –Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
2,384.00	0.54	91.740	2,383.84	-8.99	12.52	15.33	0.74
2,433.00	0.64	154.100	2,432.84	-9.25	12.87	15.76	1.26
2,480.00	1.01	177.750	2,479.84	-9.90	13.00	16.19	1.05
2,526.00	1.36	178.240	2,525.83	-10.85	13.03	16.69	0.76
2,574.00	1.22	175.020	2,573.82	-11.93	13.09	17.28	0.33
2,621.00	1.09	158.680	2,620.81	-12.84	13.30	17.91	0.75
2,669.00	1.08	134.250	2,668.80	-13.58	13.79	18.71	0.96
2,742.00	1.30	134.850	2,741.78	-14.65	14.87	20.17	0.30
2,854.00	1.73	156.570	2,853.74	-17.09	16.44	22.75	0.63
2,918.00	1.74	155.770	2,917.71	-18.87	17.23	24.31	0.04
2,981.00	1.24	109.450	2,980.69	-19.97	18.26	25.75	2.00
3,044.00	1.97	98.920	3,043.67	-20.36	19.97	27.43	1.24
3,107.00	3.06	120.100	3,106.61	-21.37	22.50	30.13	2.25
3,171.00	4.54	125.770	3,170.47	-23.71	26.03	34.35	2.38
3,234.00	5.26	129.490	3,233.24	-27.00	30.28	39.68	1.25
3,297.00	6.18	129.950	3,295.92	-31.02	35.11	45.86	1.46
3,360.00	6.64	127.200	3,358.53	-35.40	40.61	52.81	0.88
3,424.00	6.76	126.730	3,422.09	-39.89	46.58	60.22	0.21
3,487.00	7.57	123.070	3,484.60	-44.37	53.03	68.04	1.48
3,550.00	8.67	118.710	3,546.97	-48.91	60.67	76.93	2.00
3,614.00	9.34	114.370	3,610.18	-53.38	69.63	86.92	1.49
3,677.00	8.71	112.060	3,672.40	-57.28	78.71	96.74	1.15
3,740.00	8.23	113.920	3,734.71	-60.90	87.25	105.96	0.88
3,803.00	8.43	116.200	3,797.05	-64.76	95.52	115.05	0.61
3,867.00	7.52	116.640	3,860.43	-68.71	103.47	123.92	1.43
3,930.00	8.24	108.560	3,922.83	-72.00	111.44	132.46	2.09
3,993.00	8.01	105.760	3,985.20	-74.63	119.94	141.16	0.73
4,057.00	7.80	108.060	4,048.59	-77.18	128.36	149.74	0.59
4,120.00	8.32	112.680	4,110.97	-80.27	136.63	158.45	1.32
4,183.00	8.77	114.930	4,173.27	-84.05	145.19	167.76	0.89
4,244.00	8.74	116.430	4,233.56	-88.07	153.56	177.02	0.38
4,307.00	10.28	113.150	4,295.69	-92.41	163.01	187.39	2.59
4,371.00	10.55	110.820	4,358.64	-96.74	173.74	198.85	0.78
4,434.00	9.91	112.150	4,420.64	-100.83	184.15	209.92	1.08
4,497.00	9.12	114.500	4,482.77	-104.95	193.72	220.27	1.40
4,560.00	8.13	117.370	4,545.06	-109.07	202.22	229.69	1.71
4,623.00	7.73	120.410	4,607.46	-113.26	209.83	238.38	0.92
4,687.00	8.72	116.380	4,670.80	-117.59	217.89	247.53	1.79
4,750.00	8.19	116.810	4,733.11	-121.74	226.17	256.78	0.85
4,814.00	7.81	116.600	4,796.49	-125.74	234.13	265.67	0.60
4,877.00	8.25	112.800	4,858.87	-129.41	242.12	274.44	1.09
4,940.00	7.57	114.440	4,921.27	-132.88	250.07	283.06	1.14
5,004.00	7.18	117.910	4,984.74	-136.50	257.44	291.25	0.92
5,067.00	8.45	119.430	5,047.16	-140.61	264.95	299.82	2.04
5,130.00	8.84	122.250	5,109.44	-145.47	273.07	309.28	0.91
5,194.00	7.97	126.880	5,172.75	-150.76	280.78	318.60	1.72
5,257.00	7.30	129.650	5,235.20	-155.93	287.36	326.87	1.21
5,320.00	7.52	123.010	5,297.67	-160.73	293.90	334.93	1.40
5,383.00	7.76	115.170	5,360.11	-164.79	301.20	343.28	1.70
5,446.00	7.55	112.840	5,422.55	-168.20	308.87	351.63	0.59
5,510.00	6.85	111.920	5,486.05	-171.26	316.28	359.59	1.11

HALLIBURTON

Duchesne County, UT (NAD 1927)

Design Report for 12-4D-45 BTR –Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
5,573.00	6.70	106.070	5,548.61	-173.68	323.30	366.89	1.12
5,636.00	6.88	109.070	5,611.17	-175.93	330.40	374.17	0.63
5,700.00	7.13	114.570	5,674.69	-178.84	337.63	381.89	1.12
5,763.00	7.89	115.220	5,737.15	-182.30	345.10	390.10	1.21
5,826.00	6.72	122.560	5,799.64	-186.13	352.12	398.09	2.37
5,890.00	5.98	130.710	5,863.25	-190.32	357.80	405.10	1.82
5,953.00	5.72	126.550	5,925.92	-194.33	362.81	411.44	0.79
6,016.00	4.86	113.220	5,988.65	-197.25	367.79	417.21	2.37
6,080.00	4.34	108.680	6,052.44	-199.10	372.57	422.28	0.99
6,143.00	3.85	125.140	6,115.29	-201.08	376.56	426.72	2.01
6,206.00	3.32	144.870	6,178.16	-203.79	379.34	430.48	2.12
6,269.00	2.19	153.560	6,241.09	-206.36	380.93	433.13	1.91
6,333.00	1.33	140.940	6,305.06	-208.03	381.94	434.84	1.47
6,396.00	0.23	146.870	6,368.05	-208.70	382.47	435.63	1.75
6,457.00	0.72	254.600	6,429.05	-208.91	382.17	435.47	1.34
6,521.00	1.55	206.680	6,493.04	-209.79	381.39	435.23	1.87
6,584.00	1.79	198.670	6,556.01	-211.48	380.69	435.46	0.53
6,648.00	0.81	254.520	6,620.00	-212.55	379.94	435.34	2.33
6,711.00	1.01	300.590	6,682.99	-212.38	379.03	434.47	1.17
6,774.00	1.06	263.560	6,745.98	-212.17	377.97	433.44	1.05
6,838.00	1.88	241.120	6,809.96	-212.74	376.46	432.41	1.54
6,901.00	1.40	248.610	6,872.93	-213.52	374.84	431.39	0.83
6,964.00	0.45	331.240	6,935.93	-213.58	374.01	430.70	2.25
7,027.00	0.94	234.210	6,998.92	-213.67	373.47	430.27	1.73
7,091.00	1.66	236.220	7,062.91	-214.49	372.27	429.64	1.13
7,154.00	0.56	252.630	7,125.89	-215.09	371.22	429.02	1.80
7,217.00	0.99	199.000	7,188.89	-215.70	370.75	428.91	1.27
7,280.00	1.35	213.630	7,251.88	-216.83	370.16	428.96	0.74
7,344.00	0.91	266.390	7,315.87	-217.49	369.24	428.48	1.69
7,407.00	0.78	232.580	7,378.86	-217.78	368.40	427.90	0.80
7,470.00	1.48	199.580	7,441.85	-218.81	367.78	427.88	1.47
7,534.00	2.09	202.550	7,505.82	-220.67	367.06	428.16	0.96
7,597.00	2.12	230.830	7,568.77	-222.46	365.71	427.89	1.63
7,660.00	1.66	266.560	7,631.74	-223.25	363.90	426.70	1.97
7,723.00	1.55	293.920	7,694.72	-222.96	362.21	425.09	1.22
7,787.00	1.21	261.140	7,758.70	-222.72	360.75	423.70	1.32
7,850.00	1.58	246.990	7,821.68	-223.16	359.30	422.65	0.80
7,913.00	1.46	234.270	7,884.66	-223.97	357.84	421.79	0.57
7,977.00	1.28	238.630	7,948.64	-224.81	356.57	421.11	0.32
8,040.00	1.12	248.250	8,011.63	-225.41	355.40	420.38	0.41
8,103.00	0.69	291.850	8,074.62	-225.50	354.48	419.62	1.24
8,166.00	0.60	285.480	8,137.62	-225.27	353.81	418.93	0.18
8,230.00	0.85	253.320	8,201.61	-225.31	353.03	418.27	0.73
8,293.00	0.86	240.370	8,264.60	-225.68	352.17	417.71	0.31
8,356.00	1.06	218.420	8,327.60	-226.37	351.40	417.38	0.66
8,419.00	1.19	210.130	8,390.58	-227.39	350.71	417.29	0.33
8,483.00	1.40	215.240	8,454.57	-228.61	349.92	417.21	0.37
8,546.00	1.72	209.740	8,517.54	-230.06	349.01	417.13	0.56
8,609.00	2.12	199.980	8,580.51	-231.97	348.14	417.32	0.82
8,673.00	2.59	200.490	8,644.45	-234.44	347.23	417.75	0.74

HALLIBURTON

Duchesne County, UT (NAD 1927)

Design Report for 12-4D-45 BTR –Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
8,736.00	2.69	195.970	8,707.39	-237.19	346.32	418.33	0.37
8,798.00	2.79	200.720	8,769.32	-240.00	345.39	418.91	0.40
8,832.00	2.84	197.440	8,803.28	-241.58	344.85	419.22	0.50
Last Sperry MWD Survey @ 8832.00' MD							
8,893.00	2.84	197.440	8,864.20	-244.47	343.94	419.86	0.00
Straight Line Projection to TD @ 8893.00' MD							

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
153.00	153.00	-0.20	-0.30	First Sperry MWD Survey @ 153.00' MD
8,832.00	8,803.28	-241.58	344.85	Last Sperry MWD Survey @ 8832.00' MD
8,893.00	8,864.20	-244.47	343.94	Straight Line Projection to TD @ 8893.00' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	12-4D-45 BTR_BHL Tgt	119.672	S lot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
153.00	8,893.00	Sperry MWD Surveys	MWD

Targets

Target Name -hit/miss target -Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
12-4D-45 BTR_Zone T	0.00	0.00	6,378.00	-206.55	362.53	667,134.25	2,290,365.10	40° 9' 37.210 N	110° 27' 39.841 W
-actual wellpath misses target center by 20.07ft at 6406.04ft MD (6378.09 TVD, -208.74 N, 382.48 E)									
-Rectangle (sides W200.00 H200.00 D2,490.00)									
12-4D-45 BTR_SHL	0.00	0.00	0.00	0.00	0.00	667,336.56	2,290,000.22	40° 9' 39.251 N	110° 27' 44.510 W
-actual wellpath hits target center									
-Point									
12-4D-45 BTR_BHL Tgt	0.00	0.00	8,868.00	-206.55	362.53	667,134.25	2,290,365.09	40° 9' 37.210 N	110° 27' 39.841 W
-actual wellpath misses target center by 42.40ft at 8893.00ft MD (8864.20 TVD, -244.47 N, 343.94 E)									
-Point									

North Reference Sheet for Sec. 4-T4S -R 5W -12-4D-45 BTR -Plan A

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB 23' @ 5913.00ft (Nabors M22). Northing and Easting are relative to 12-4D-45 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 111° 30' 0.000 W°, Longitude Origin: 0° 0' 0.000 E°, Latitude Origin: 40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991496

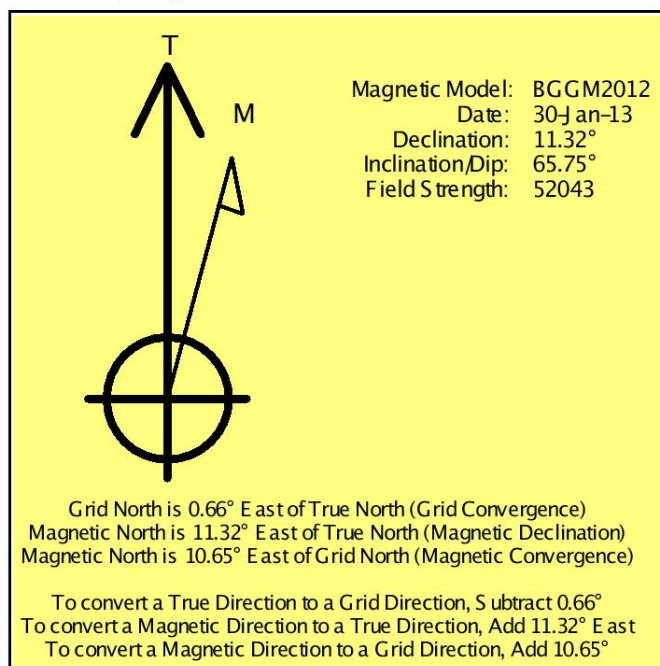
Grid Coordinates of Well: 667,336.56 ft N, 2,290,000.22 ft E

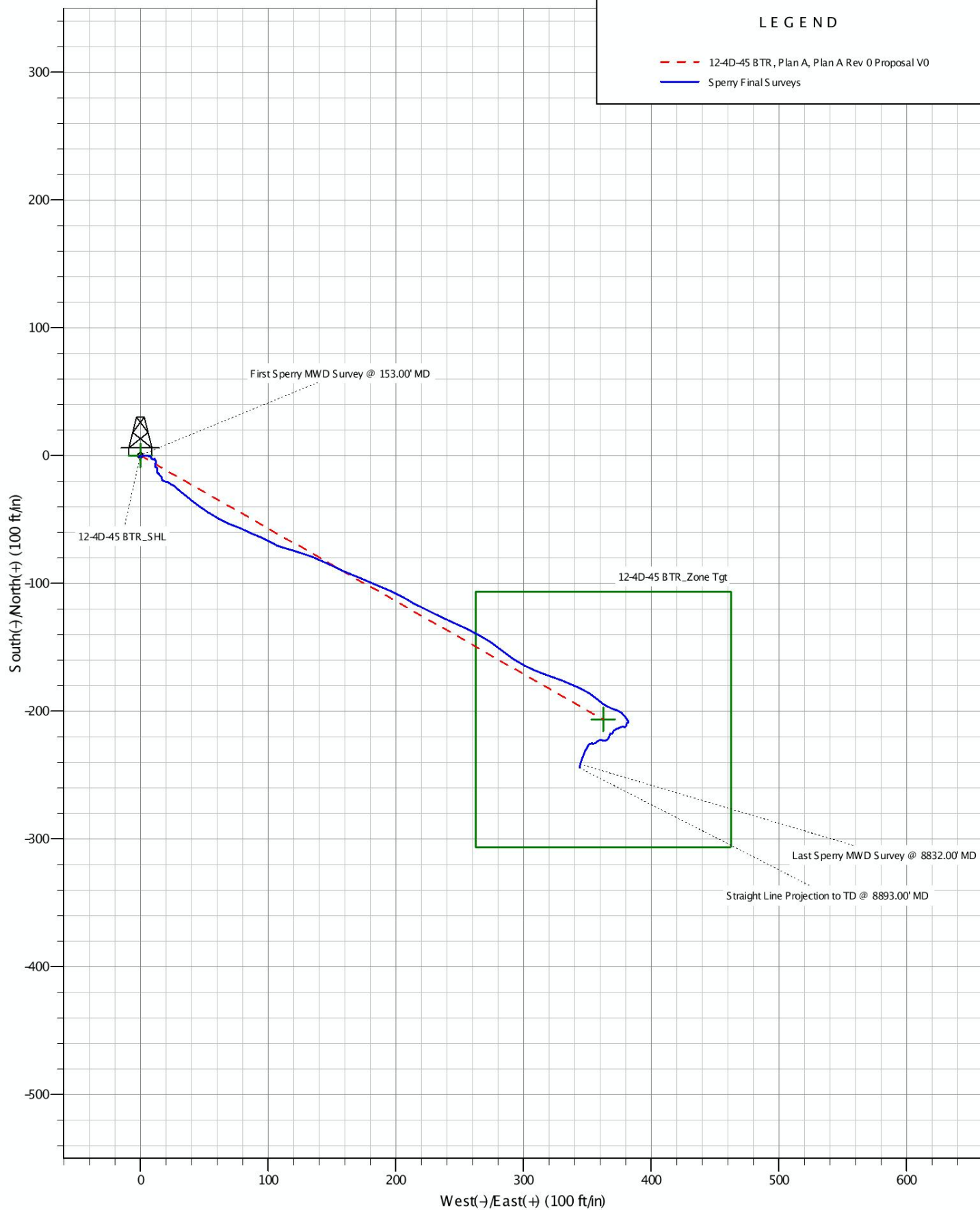
Geographical Coordinates of Well: 40° 09' 39.25" N, 110° 27' 44.51" W

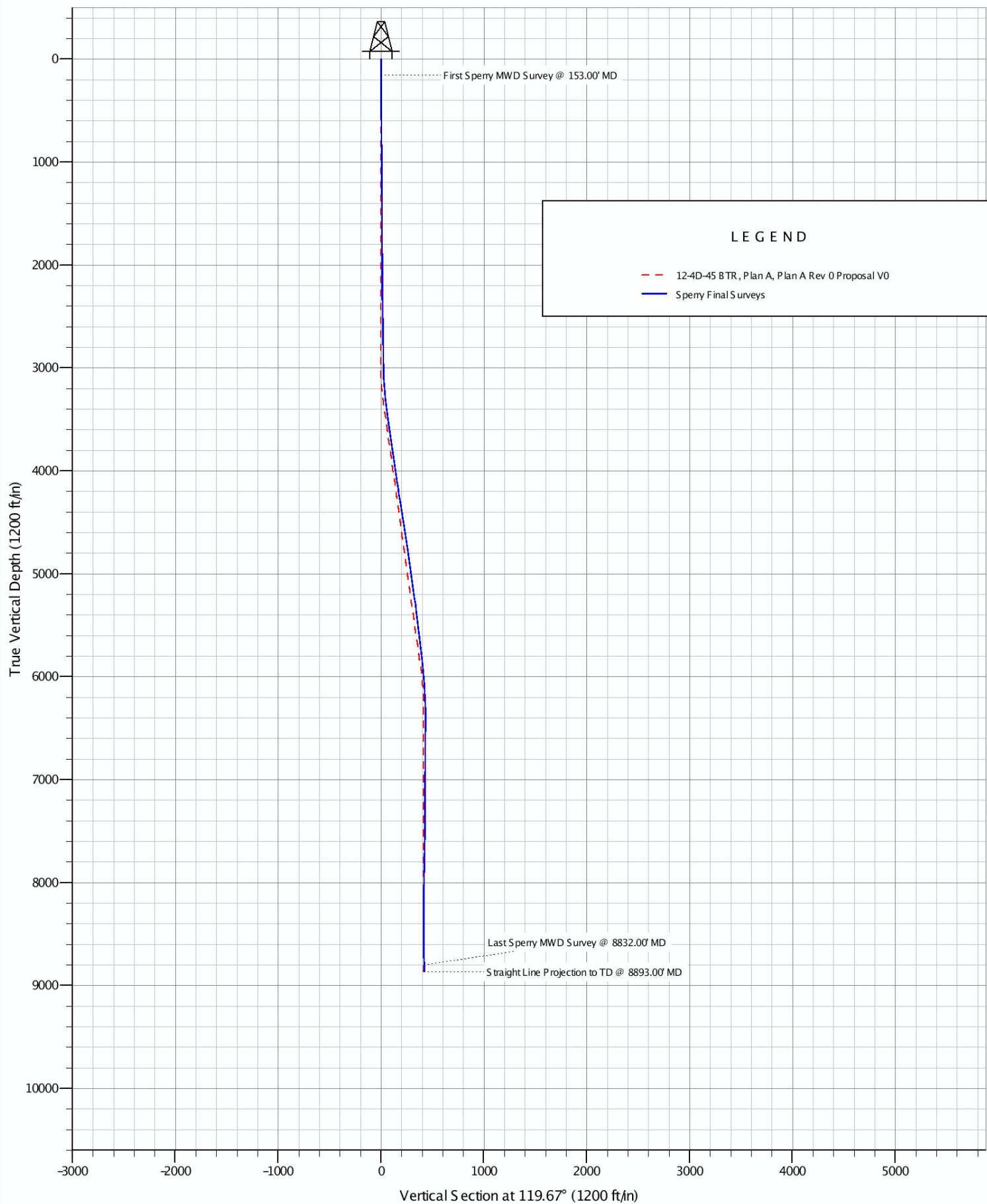
Grid Convergence at Surface is: 0.66°

Based upon Minimum Curvature type calculations, at a Measured Depth of 8,893.00ft
the Bottom Hole Displacement is 421.97ft in the Direction of 125.40° (True).

Magnetic Convergence at surface is: -10.65° (30 January 2013, , BGGM2012)









Bill Barrett Corporation

12-4D-45 BTR 1/26/2013 06:00 - 1/27/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	21	OPEN	
20:00	10.00	06:00	1	RIGUP & TEARDOWN	Rig down.

12-4D-45 BTR 1/27/2013 06:00 - 1/28/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	1	RIGUP & TEARDOWN	RDMO. Moved mud storage tanks, mud, pipe, piperacks, catwalk, bop, gasbuster, koomey house, parts house, junk baskets. Crane on loc, rig down windwalls. S nowing, roads slick, trucks chaining up & down.

12-4D-45 BTR 1/28/2013 06:00 - 1/29/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	13.00	19:00	1	RIGUP & TEARDOWN	Derrick laid over, moved pits, light plant, pumps, boiler. Move camps, staged most of rig to loc near new loc. Roads very slick, got 75% of rig off loc.
19:00	11.00	06:00	1	RIGUP & TEARDOWN	Wait on daylight.

12-4D-45 BTR 1/29/2013 06:00 - 1/30/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	13.00	19:00	1	RIGUP & TEARDOWN	MIRU. Move everything off old loc except DP. Pits set, rig 10% rigged up. Most of rig on adjacent location.
19:00	11.00	06:00	1	RIGUP & TEARDOWN	Wait on daylight.

12-4D-45 BTR 1/30/2013 06:00 - 1/31/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	13.00	19:00	1	RIGUP & TEARDOWN	Started setting matting boards, loc unlevel - hauled in road base and graded around wellhead. Got mats set, pumps, boiler, generator, sub. Rig 50% rigged up.
19:00	11.00	06:00	1	RIGUP & TEARDOWN	Wait on daylight.

12-4D-45 BTR 1/31/2013 06:00 - 2/1/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	1	RIGUP & TEARDOWN	Rig set in. Continue rig up. Having communication problems with drawworks and VFD.

12-4D-45 BTR 2/1/2013 06:00 - 2/2/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	1	RIGUP & TEARDOWN	Continue rigging up. N/U conductor and flowline. Do prespud inspection.

12-4D-45 BTR 2/2/2013 06:00 - 2/3/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	16.00	22:00	8	REPAIR RIG	Wait on electrician to troubleshoot and repair VFD and topdrive inverter.
22:00	3.00	01:00	20	DIRECTIONAL WORK	P/U Bit & motor, make up stand for kelly.



Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
01:00	1.50	02:30	2	DRILL ACTUAL	Drill 95-107'.
02:30	0.50	03:00	7	LUBRICATE RIG	Rig Service
03:00	3.00	06:00	2	DRILL ACTUAL	Drilling 107-178'.

12-4D-45 BTR 2/3/2013 06:00 - 2/4/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	20	DIRECTIONAL WORK	P/U Dir equip and orient.
08:00	21.50	05:30	2	DRILL ACTUAL	Drill/slide 178-1239'. Survey @ 1074' .74* inc 136.51* az MW 8.9#/gal 35 vis 10.1 PH.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig service.

12-4D-45 BTR 2/4/2013 06:00 - 2/5/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/slide 1239-1792'. 553' in 11.5 hrs 48 fph. survey @ 1719' .43* inc. 173.5* az MW 9#/gal 36 vis 10.2 ph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service.
18:00	10.00	04:00	2	DRILL ACTUAL	Drill/slide 1792-2172' 380' in 10 hrs 38 fph. Survey @ 2099' 1.14* inc 192.28* az. MW 8.8#/gal 34 vis 10.4 ph
04:00	0.50	04:30	7	LUBRICATE RIG	Rig Service
04:30	1.50	06:00	2		Drill/slide 2172-2219'. Survey @ 2099' 1.14* inc 192.28* az. MW 8.8#/gal 34 vis 10.4 ph

12-4D-45 BTR 2/5/2013 06:00 - 2/6/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Drill/slide 2219-2552'. 333' in 9.5 hrs 35 fph. survey @ 2480' 1.01* inc 177.75* ax MW 8.8#/gal 35 vis 10.4 ph.
15:30	0.50	16:00	7	LUBRICATE RIG	Service rig. Check load bearing in top drive.
16:00	7.00	23:00	2	DRILL ACTUAL	Drill/slide 2252-2815'. Survey @ 2742' 1.3* inc 134.85* az. MW 8.8#/gal 35 vis 10.4 PH
23:00	1.00	00:00	5	COND MUD & CIRC	Pump sweeps and clean hole.
00:00	4.50	04:30	6	TRIPS	TOH. L/D 8" BHA. L/D 8" dir equipment
04:30	1.50	06:00	12	RUN CASING & CEMENT	Rig up csg crew and prep to run sfc casing.

12-4D-45 BTR 2/6/2013 06:00 - 2/7/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	12	RUN CASING & CEMENT	Run casing. Run 64 jts 9 5/8" 36# J 55 casing with 1 jt shoe. Land @ 2810'. Circulate while rigging up HES. Cmt as follows; 5 bbls water, P-test to 5500#, pump 10 bbl water spacer, 40 bbl superflush, 10 bbl spacer, 460 sks (259 bbls) 11# lead cmt, 240 sks (283 BLS) tail cmt. Drop Top plug, Displace with 214 bbls mud. Final pumping pressure 600#. Bump plug to 1200#. Bleed off and check floats. Had full returns thruout jod. app 150 bbls cmt returned. Wait 1 hr. Top out with 100 sks G with 2% cal..
18:00	5.00	23:00	13	WAIT ON CEMENT	WOC
23:00	7.00	06:00	14	NIPPLE UP B.O.P	N/D Conductor. Cut off csg Weld on csg head. N/U BOP

12-4D-45 BTR 2/7/2013 06:00 - 2/8/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	14	NIPPLE UP B.O.P	N/U BOP



Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
09:00	6.00	15:00	15	TEST B.O.P	Test BOP, tested upper & lower Kelly valves, safety valve, inside BOP, Pipe rams, blind rams, HCR valve, kill line valves, choke line valves and manifold to 5k high and 250# Low Test annular to 2500 and csg to 1500# and power choke to 500# all tested good.
15:00	3.50	18:30	20	DIRECTIONAL WORK	P/U PDC Logic PLT6160 and Hunting Double Tough 1.5* fixed bend motor. Pickup Dir eq. and orient.
18:30	3.50	22:00	6	TRIPS	TIH tag float @ 2762' Drill out float equip and drill to 2835'. Spot pill on bottom dp FIT to 10.5# EMW (250psi) Held for 10 min.
22:00	7.00	05:00	2	DRILL ACTUAL	Drill/slide 2835-3390'. Survey @ 3171' 4.54* inc 125.77 az MW 8.9#/gal 47 vis 10 PH

12-4D-45 BTR 2/8/2013 06:00 - 2/9/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/slide 3390-4244'. 854 fet 11.5 hrs 74 fph. survey @ 4183 8.79* inc 114.93* az MW 9.1 #/gal 44 vis 8.2 ph 2.5 #/bbl dap
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, Function test BOP
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/slide 4244-5065'. 821' in 11.5 hrs 71 fph. Survey @ 4877 8.25* inc 112.8* az MW 9.0#/gal 44 vis 8.1 ph 3.2#/bbl dap.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig service, Function test BOP

12-4D-45 BTR 2/9/2013 06:00 - 2/10/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/slide 5065-5571'. Survey @ 5510' 6.85* inc 111.92 az MW 9#/gal 45 vis 8 PH 3.7 #/bbl dap
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, Function test BOP.
18:00	11.50	05:30			Drill/slide 5571-6141'. Survey @ 6016 4.86* inc 113.22* az. MW 8.9#/gal 46 vis 7.9 PH 3.9 #/bbl DAP.
05:30		05:30			Rlg Service, Function test BOP.

12-4D-45 BTR 2/10/2013 06:00 - 2/11/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/slide 6141-6873'. Survey 6838' 1.88 inc 241.12 az MW 9.2#/gal 44 vis 7.9 ph 4 #/bbl dap.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service Function test BOP
18:00	10.50	04:30	2	DRILL ACTUAL	Drlg 6853-7373'. Survey @ 7280' 1.35* inc 213.63 az MW 9.4#/gal 43 vis 7.8 ph 4 ppb dap. Increase MW to keep gas down
04:30	0.50	05:00	7	LUBRICATE RIG	Rig service. Function test BOP
05:00	1.00	06:00	2	DRILL ACTUAL	Drlg 7373-7405'.

12-4D-45 BTR 2/11/2013 06:00 - 2/12/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	2	DRILL ACTUAL	Drill/slide 7405-7658'. Survey @ 7660' 1.66* inc 266.56 az MW 9.3#/gal 7.8 ph 3.5 #/bbl dap. Heavy seeping mixing LCM to 20%
13:00	0.50	13:30	7	LUBRICATE RIG	Rig service. Function test BOP
13:30	16.50	06:00	2	DRILL ACTUAL	Drill/slide 7658-8164'. 759' for day. Survey @ 8103 .69 inc 291.85 az. MW 9.4#/gal 46 vis 7.8 ph 3.5 #/bbl dap. Fighting heavy seeping. LCM content 20% . Lost app 950 bbls throughout day.

12-4D-45 BTR 2/12/2013 06:00 - 2/13/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Drill/slides 8164-8512'. survey @ 8483'. 1.4* inc 215.24 az MW 9.4#/gal 45 vis 7.8 ph 3.5 #/bbl dap. 22% lcm.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig service function test BOP.
17:00	11.00	04:00	2	DRILL ACTUAL	Drill/slides 8512-8893'. Survey @ 8832 2.84* inc 197.4 az MW 9.4#/gal 47 vis 7.7 ph 3.5#/bbl dap 30% LCM.

12-4D-45 BTR 2/13/2013 06:00 - 2/14/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	7	LUBRICATE RIG	Rig Service, Function test BOP
06:30	8.50	15:00	6	TRIPS	Make wiper trip to csg shoe Trip was smooth. Hole took proper amount of mud. TIH.
15:00	2.50	17:30	5	COND MUD & CIRC	Circulate, pump 2 high vis sweeps 30 min apart. Hole cleaned up good.
17:30	9.50	03:00	6	TRIPS	TOH wet. No dryjob. L/D dir equipment.
03:00	3.00	06:00	11	WIRELINE LOGS	Rig up HES wireline and log well.

12-4D-45 BTR 2/14/2013 06:00 - 2/15/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	11	WIRELINE LOGS	Log well w/HES open hole loggers. Ran Spectral density, Dual spaced neutron, Sonic array, Micro spherically focused log, Dual laterolog, Gamma ray. Resistivity wasn't working, started out to replace, started working. went back to bottom and relogged. R/D HES.
12:00	1.00	13:00	7	LUBRICATE RIG	Pull wear bushing. S service Rig.
13:00	8.00	21:00	12	RUN CASING & CEMENT	HSM. R/U Frank's, run 5 1/2", 17#, P-110, LT&C csg as follows: Float shoe, 2 jts csg, float collar, 11 jts csg, MJ, 8 jts csg. Filled pipe, pipe was plugged. Pooh, stood back 6 doubles, l/d shoe track, flt equip(ruined). X/O Frank's tongs.
21:00	9.00	06:00	12	RUN CASING & CEMENT	P/U new flt equip, run csg as follows: FS, 2 jts csg, FC, 11 jts csg, MJ @ 8288', 18 jts csg, MJ @ 7461', 15 jts csg, MJ @ 6765', 151 jts csg(197 jts total).

12-4D-45 BTR 2/15/2013 06:00 - 2/16/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	12	RUN CASING & CEMENT	Finish running csg -P/U jt # 298, tag bottom @ 8893', L/D jt # 298. Lost flow @ 2500'.
06:30	4.00	10:30	5	COND MUD & CIRC	Pump @ 30 strokes, no returns. Building volume & adding small particle lcm while HES rigs up. Got returns @ 08:30. HES had issues with frozen valves, lines on superflush truck.
10:30	3.50	14:00	12	RUN CASING & CEMENT	HSM. Pressure test lines to 5000 psi. Pump 40 bbls super flush, 10 bbl H2O spacer, 715 sx(295.4 bbls) lead cement @ 11 ppg, 2.32 yld, 10.61 gps H2O. Mix and pump 610 sx(155.4 bbls) tail cement @ 13.5 ppg, 1.43 yld, 6.65 gps H2O. Shut down, wash up to pit, drop plug. Pump 204 bbls H2O displacement, Bumped plug @ 1900 psi, pressured to 2400 psi. Bled back 2 bbls, floats held. Had 70% returns until displacement, lost completely. R/D Halliburton.
14:00	4.00	18:00	14	NIPPLE UP B.O.P	NDBOP, lift stack. Set slips on 5 1/2" csg w/175k. Rough cut csg, install night cap. Clean pits. Rig released @ 18:00.

12-4D-45 BTR 3/13/2013 06:00 - 3/14/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	IWHD	Install Wellhead	CLEAN CELLAR. CHECK PRESSURE. ND 11" NIGHT CAP. MAKE FINAL CUT ON 5-1/2" CSG. INSTAL 7" 5K TBG HEAD. PRES TEST VOID. GOOD. INSTALL 7" NIGHT CAP.
09:00	21.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION.

12-4D-45 BTR 3/14/2013 06:00 - 3/15/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	MIRU SLB. RIH W /GR JB. TAG AT 8745', (DRLG SHOW FC AT 8797') HAVE 52' FILL. RIH W /CBL/GR/TEMP/CCL. FIND SHORT JTS AT 6741'-6763', 7437'-7455', AND 8260'-8281'. REPEAT PAS 8745'-8500'. CMT BOND SHOWS TD-7050' GOOD, 7050'-6750' FAIR, 6750'-5400' GOOD, 5400'-4850' FAIR, 4850'-4600' RATTY, 4600'-4400' GAIR, 4400'-4206' RATTY, TOC 4206'. CBL RUN WITH PRES. MAX TEMP 213*, MAX PSI 4559 PSI. RD AND SECURE WELL.

12-4D-45 BTR 3/15/2013 06:00 - 3/16/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

12-4D-45 BTR 3/16/2013 06:00 - 3/17/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

12-4D-45 BTR 3/17/2013 06:00 - 3/18/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

12-4D-45 BTR 3/18/2013 06:00 - 3/19/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

12-4D-45 BTR 3/19/2013 06:00 - 3/20/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

12-4D-45 BTR 3/29/2013 06:00 - 3/30/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Construction Crew Working On Facilities. Finish Setting Frac Line/Filling

12-4D-45 BTR 3/30/2013 06:00 - 3/31/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Filling Frac Line. Rig Up FlowBack And SandTrap. Begin Loading Acid.

12-4D-45 BTR 3/31/2013 06:00 - 4/1/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Filling Frac Line

**12-4D-45 BTR 4/1/2013 06:00 - 4/2/2013 06:00**

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Construction Crew Working On Facilities. Loading Acid. Filling Frac Line.

12-4D-45 BTR 4/2/2013 06:00 - 4/3/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Construction Crew Working On Facilities. Finish Filling Frac Line. Set S and Storage.

12-4D-45 BTR 4/3/2013 06:00 - 4/4/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HEAT FRAC LINE. PRES TEST FLOW BACK EQUIP.

12-4D-45 BTR 4/4/2013 06:00 - 4/5/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	SRIG	Rig Up/Down	HSM. MIRU SLB. WAS GOING TO PERF 9H-4-45 BUT HAD TROUBLES WITH ERS. RD 10K LUBE. RU 5K LUBE.
11:00	2.00	13:00	PFRT	Perforating	PU GUNS FOR STG 1. RIH AND CORRELATE TO SJ AT 8260'-8281'. RUN DOWN AND PERF CR-4, CR-4A, AND CR-5 FORM 8521'-8744' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT WELL IN.
13:00	18.00	07:00	SRIG	Rig Up/Down	MIRU BASIC FRAC FLEET. PREP TO FRAC IN AM.

12-4D-45 BTR 4/5/2013 06:00 - 4/6/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	SMTG	Safety Meeting	HSM. HIGH PRESSURE, RED ZONE, ACID, OVERHEAD LOADS, EXPLOSIVES. RUN QC ON FLUIDS. HAVE LEAK IN SEABORD VALVE ON FRAC CAP. CALL FOR NEW CAP. REPLACE AND PRES TEST TO 9300 PSI.

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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
05:30	0.50	06:00	FRAC	Frac. Job	Frac Stage 2. Fluid System: Hybor G 16 Open Well, 1,432 Psi. ICP. Broke Down At 10.0 Bpm And 2,071 Psi. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall.

12-4D-45 BTR 4/6/2013 06:00 - 4/7/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	FRAC	Frac. Job	FRAC STG #2-CR-3 AND CR-4 PERFS 8225'-8487' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/470 PSI AT 06:24 BREAK DOWN 2310 PSI AT 5.9 BPM. PMP 92.8 BBL 15% HCL ACID W/90 BIO BALLS FOR DIVERSION. 11.5 BPM AT 3160 PSI. FLUSH W/210 BBL. 31.9 BPM AT 3510 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 15 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 62.9 BPM AT 4040 PSI. ISIP 2490. FG .73. PERFS OPEN 30/45. CONT FR PAD. 762.6 BPM AT 3940 PSI. STAGE HYBOR PAD 64.4 BPM AT 4520 PSI. STAGE TO 2 PPA 20/40 WHITE. 62.7 BPM AT 4400 PSI. ON PERFS 63.1 BPM AT 4100 PSI. STAGE TO 3 PPA 20/40 WHITE. 62.3 BPM AT 3900 PSI. ON PERFS 62.3 BPM AT 3580 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 63.1 BPM AT 3670 PSI. ON PERFS 66.7 BPM AT 3620 PSI. STAGE TO 4 PPA 20/40 WHITE. 61.6 BPM AT 3610 PSI. ON PERFS 61.7 BPM AT 3600 PSI. FLUSH 62.7 BPM AT 4950 PSI. WSI WITH 2630 PSI. TURN OVER TO WIRELINE. ISDP 2860 FG .78 MAX RATE 70.5 BPM MAX PRES 4166 PSI AVE RATE 70.1 BPM AVE PRES 3666 PSI PMP 150,600 LBS 20/40 WHITE. 425 LBS SCALE SORB 3 SLK WTR 1640 BBL 20# HYBOR G (16) 1704 BBL (TOTAL FLUID 3457.4 BBL) BWTR 3410.9
09:00	1.75	10:45	PFRT	Perforating	PERF STG #3-PU HES 5-1/2" CBP AND GUNS FOR STAGE 3 INTO LUB AND EQUALIZE 2300 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7437'-7455'. RUN DOWN AND SET CBP AT 8218' WITH 2200 PSI. PULL UP AND PERF CR-2 AND CR-3 FORM 7908'-8200' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO BASIC WITH 2200 PSI.

Start Time	Dur (hr)	End Time	Code	Category	Com
10:45	2.25	13:00	FRAC	Frac. Job	<p>FRAC STG #3-CR-2 AND CR-3 PERFS 77908'-8200' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/1870 PSI AT 11:19 BREAK DOWN 3470 PSI AT 5.2 BPM. PMP 92 BBL 15% HCL ACID W/90 BIO BALLS FOR DIVERSION. 11.9 BPM AT 4340 PSI. FLUSH W/ BBL. 29.9 BPM AT 4330 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 15 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 64.4 BPM AT 3840 PSI. ISIP 2630. FG .77. PERFS OPEN 36/45. CONT FR PAD. 64.6 BPM AT 3820 PSI. STAGE HYBOR PAD 64.4 BPM AT 4060 PSI. STAGE TO 2 PPA 20/40 WHITE. 65.1 BPM AT 4100 PSI. ON PERFS 63.1 BPM AT 3830 PSI. STAGE TO 3 PPA 20/40 WHITE. 59.7 BPM AT 3490 PSI. ON PERFS 58.8 BPM AT 3500 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 58.8 BPM AT 3520 PSI. LOST SUCTION ON 2% - CUT SAND. GO TO FLUSH, FLUSH 35 BPM UP TO 45 BPM AT 3200 PSI. OVER FLUSH BY 20 BBLS. WSI WITH 2800 PSI. TURN OVER TO WIRELINE.</p> <p>IS DP 2820 FG .78 MAX RATE 64.5 BPM MAX PRES 5445 PSI AVE RATE 45.7 BPM AVE PRES 3749 PSI PMP 106,880 LBS 20/40 WHITE. 225 LBS SCALE SORB 3 SLK WTR 1630 BBLS 20# HYBOR G (16) 1211 BBL BWTR 2933 BBLS</p>
13:00	1.50	14:30	PFRT	Perforating	<p>PERF STG #4-PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 4 INTO LUB AND EQUALIZE 2600 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7437'-7455'. RUN DOWN AND SET CBP AT 7888' WITH 2500 PSI. PULL UP AND PERF CR-2 AND CR-3 FORM 7619'-7868' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO BASIC WITH 2400 PSI.</p>
14:30	1.75	16:15	FRAC	Frac. Job	<p>FRAC STG #4-CR-2 PERFS 7149'-7390' 45 HOLES IN 13' NET. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/2280 PSI AT 14:43 BREAK DOWN 2410 PSI AT 5.2 BPM. PMP 93 BBLS 15% HCL ACID W/90 BIO BALLS FOR DIVERSION. 12.1 BPM AT 2520 PSI. FLUSH W/178.2. 31.6 BPM AT 2930 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 15 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 63.2 BPM AT 5160 PSI. ISIP 2480. FG .75. PERFS OPEN 21/45. CONT FR PAD. 64.7 BPM AT 4570 PSI. STAGE HYBOR PAD 62.8 BPM AT 3980 PSI. STAGE TO 2 PPA 20/40 WHITE. 61.8 BPM AT 4080 PSI. ON PERFS 62.8 BPM AT 3570 PSI. STAGE TO 3 PPA 20/40 WHITE. 63.1 BPM AT 3440 PSI. ON PERFS 64.8 BPM AT 3120 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 65.8 BPM AT 3360 PSI. ON PERFS 65.1 BPM AT 3380 PSI. STAGE TO 4 PPA 20/40 WHITE. 66.6 BPM AT 3370 PSI. ON PERFS 63.6 BPM AT 3380 PSI. FLUSH 63.5 BPM AT 5250 PSI. WSI WITH 2400 PSI. TURN OVER TO WIRELINE.</p> <p>IS DP 2430 FG .75 MAX RATE 62.5 BPM MAX PRES 6210 PSI AVE RATE 59.7 BPM AVE PRES 4000 PSI PMP 170,620 LBS 20/40 WHITE. 675 LBS SCALE SORB 3 SLK WTR 1121 BBL 20# HYBOR G (16) 1301 BBL BWTR 3175 BBLS</p>
16:15	1.34	17:35	PFRT	Perforating	<p>PERF STG #5-PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 5 INTO LUB AND EQUALIZE 2300 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7437'-7455'. RUN DOWN AND SET CBP AT 7385' WITH 2200 PSI. PULL UP AND PERF CASTLE PEAK FORM 7209'-7369 WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO BASIC WITH 2200 PSI.</p>
17:35	0.42	18:00	GOP	General Operations	Well Turned Over To Basic. Change Out Crews, Hold Safety Meeting. Pressure Test To 8500#. Equalize, Open To Well.



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
18:00	0.67	18:40	FRAC	Frac. Job	Acidize Stage 5. Open Well, 1,800 Psi. ICP. BrokeDown At 6.7 Bpm And 3,260 Psi. Pump 15,000 Gals. 15% HCL Drop 120 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,040 Psi.. 0.71 Psi./Ft. F.G.. WSI And Secured. Total Clean -23,100 Gals.. 550 Bbls.. BWTR -550 Bbls. Max. Rate -48.4 Bpm Avg. Rate -23.0 Bpm Max. Psi. -8,630 Psi. Avg. Psi. -3,911 Psi.
18:40	0.16	18:50	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
18:50	1.17	20:00	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 02-14-2013 And SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Short Joint At 6,741 -6,763'. Drop Down To Depth, Set CBP At 7,198', 1,650 Psi.. Perforate Stage 6 Castle Peak/Black Shale Zone, 7,030 -7,184'. 42 Holes. 1,500 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
20:00	0.08	20:05	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well.
20:05	0.50	20:35	FRAC	Frac. Job	Acidize Stage 6. Open Well, 1,440 Psi. ICP. BrokeDown At 10.6 Bpm And 1,900 Psi.. Pump 15,000 Gals. 15% HCL Drop 120 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 1,490 Psi.. 0.64 Psi./Ft. F.G.. WSI And Secured. Total Clean -23,100 Gals.. 550 Bbls.. BWTR -550 Bbls. Max. Rate -50.0 Bpm Avg. Rate -24.2 Bpm Max. Psi. -8,890 Psi. Avg. Psi. -3,610 Psi.
20:35	9.42	06:00	SRIG	Rig Up/Down	RigDown Off WellHead. Move Over To 9H-4-45 BTR. WSI And Secured.

12-4D-45 BTR 4/7/2013 06:00 - 4/8/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	WELL SHUT IN AS FRAC ON 9H-4-45.

12-4D-45 BTR 4/8/2013 06:00 - 4/9/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	19.00	01:00	GOP	General Operations	WELL SHUT IN AS FRAC 9H-4-45.
01:00	4.00	05:00	FBCK	Flowback Well	OPEN WELL TO FB TANKS. FLOW TILL PH AT 5 AND TRACE OF OIL. TURN TO PRODUCTION.
05:00	1.00	06:00	FBCK	Flowback Well	WELL FLOWING TO PRODUCTION. WAITING ON COIL TO D/O 9H-4-45. THEN RIG TO D/O PLUGS.

12-4D-45 BTR 4/9/2013 06:00 - 4/10/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	FBCK	Flowback Well	WELL FLOWING TO PRODUCTION AS D/O PLUGS ON 9H-4-45 WITH COIL TBG.

12-4D-45 BTR 4/14/2013 00:00 - 4/15/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
00:00	1.00	01:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.



Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
01:00	1.00	02:00	SRIG	Rig Up/Down	R/D RIG ON 4-9D-45 BTR. ROAD RIG TO LOCATION.
02:00	1.00	03:00	SRIG	Rig Up/Down	R/U RIG & EQUIPMENT.
03:00	2.00	05:00	BOP1	Install BOP's	SLIGHT BLOW ON WELL. N/D FRAC TREE. N/U BOP & HYDRILL. R/U FLOOR & EQUIPMENT. LOAD 283 JTS ON PIPE RACKS.
05:00	3.50	08:30	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS, 1 JT 2-7/8 TBG & XN-NIPPLE. RIH W/BHA P/U NEW 2-7/8 L-80 TBG. TAG CBP @ 7198'.
08:30	4.00	12:30	DOPG	Drill Out Plugs	R/U POWER SWIVEL. BREAK CIRC. D/O CBP @ 7198', FCP-200 ON 64/64 CHOKE. SWIVEL IN HOLE TO CBP @ 7385'. D/O PLUG, FCP-200 ON 64/64 CHOKE. CIRC WELL CLEAN. PULL ABOVE PERFS. WELL DEAD. DRAIN UP EQUIPMENT. SWIFN.
12:30	11.50	00:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

12-4D-45 BTR 4/15/2013 06:00 - 4/16/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	7.00	14:00	DOPG	Drill Out Plugs	SICP-150. BLEED DOWN CSG, WELL DEAD. RIH F/TOP OF PERFS W/4-3/4 BIT. TAG SAND @ 7877'. R/U SWIVEL. BREAK CIRC. C/O SAND & D/O CBP @ 7888'. FCP-150 ON 64/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 8200'. C/O SAND & D/O CBP @ 8218'. FCP-250 ON 64/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 8475'. C/O SAND & D/O CBP @ 8510'. FCP-200 ON 64/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 8747". C/O SAND, D/O FLOAT COLLAR @ 8796'. C/O CMT TO 8837'. CIRC WELL CLEAN. PUMPED 350 BBLs TOTAL. R/D SWIVEL. L/D 7 JTS. WELL DEAD.
14:00	2.00	16:00	PULT	Pull Tubing	POOH W/BIT.
16:00	3.00	19:00	RUTB	Run Tubing	P/U TAC & BHA. RIH TO TOP OF PERFS. SDFN.
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

12-4D-45 BTR 4/16/2013 06:00 - 4/17/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	2.00	09:00	RUTB	Run Tubing	RIH F/TOP OF PERFS W/5-1/2 1/4 TURN TAC & BHA. N/D BOP. SET TAC @ 8375'. S/N @ 8441'. EOT @ 8624'. R/U WELLHEAD. 263 JTS 2-7/8 TBG. TAC 1/4 TURN. 20K TENSION 2 JT 2-7/8 TBG. S/N. 4' PUP. DESANDER. 5 JTS 2-7/8 TBG. BULL PLUG.
09:00	1.50	10:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. CHAIN UP RIG. VERY MUDDY CONDITION.
10:30	2.00	12:30	RMOV	Rig Move	ROAD RIG TO FD15-7-2-2.
12:30	17.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE.

12-4D-45 BTR 4/17/2013 06:00 - 4/18/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL
07:00	1.00	08:00	DTIM	Downtime	WOO
08:00	2.00	10:00	RMOV	Rig Move	ROAD RIG TO LOCATION.



Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	2.00	12:00	SRIG	Rig Up/Down	SPOT AND RUSU. SPOT ROD TRAILER
12:00	3.00	15:00	GOP	General Operations	FLUSH TBG W / 100 BBL (WELL CIRCULATING). BLEED OFF TBG.
15:00	3.00	18:00	RURP	Run Rods & Pump	PU AND PRIME 25-175-RHBC-36' PMP. RIH AS PU RODS. RAN 28) 1" W / 4G, 128) 3/4" W / 4G, 83) 7/8" W / 4G. PU POLISH ROD AND SWFN.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

12-4D-45 BTR 4/18/2013 06:00 - 4/19/2013 06:00

API/UWI 43-013-51063	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,893.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL
07:00	2.00	09:00	RURP	Run Rods & Pump	HSM. CONT RIH AS PU 96) 1" W / 4G. SPACE OUT AND SEAT PUMP ROD DETAIL 1-1/2" X 30' POLISH ROD 1) 8', 1) 6', 1) 2' X 1" PONY RODS 96) 1" W / 4G 83) 7/8" W / 6G 128) 3/4" W / 6G 28) 1" W / 4G SHEAR CPLG 25-175-RHBC-20-4-21-24 PUMP
09:00	0.50	09:30	PTST	Pressure Test	FILL TBG W / 5 BBLs. PRES TEST TO 1000 PSI. BLEED OFF. STROKE TEST TO 1000 PSI. GOOD
09:30	1.00	10:30	SRIG	Rig Up/Down	RDSU AND MOVE TO EDGE OF LOCATION
10:30	19.50	06:00	GOP	General Operations	CLEAN LOCATION AND R&M RIG EQUIP. CREW TRAVEL. WELL TURNED OVER TO PRODUCTION.

Effective Date: 11/1/2016

FORMER OPERATOR:	NEW OPERATOR:
Bill Barrett Corporation 1099 18th Street, Suite 2300 Denver, CO 80202	Rig II, LLC 1582 West 2600 South Woods Cross, UT 84087
CA Number(s):	Unit(s):

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on: 10/21/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 10/21/2016
3. New operator Division of Corporations Business Number: 8256968-0160

REVIEW:

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
2. Receipt of Acceptance of Drilling Procedures for APD on: 10/21/2016
3. Reports current for Production/Disposition & Sundries: 11/2/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 11/3/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 11/3/2016
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): 11/3/2016

NEW OPERATOR BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UTB000712
2. Indian well(s) covered by Bond Number: LPM 922467
3. State/fee well(s) covered by Bond Number(s): 9219529

DATA ENTRY:

1. Well(s) update in the **OGIS** on: 11/7/2016
2. Entity Number(s) updated in **OGIS** on: 11/7/2016
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 11/7/2016
6. Surface Facilities update in **RBDMS** on: N/A

COMMENTS:

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
SWD 9-36 BTR	9	030S	060W	4301350646	18077	Indian	Fee	WD	A
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	A
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	A
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040S	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
8H-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	OW	APD
LC TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	OW	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	OW	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	OW	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	OW	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
LC TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	OW	APD
LC TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	OW	APD
LC TRIBAL 8H-30-45	30	040S	050W	4301351277		Indian	Indian	OW	APD
LC TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
LC TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	OW	APD
LC TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
LC TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
LC TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
LC TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
LC TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
LC TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
LC TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	OW	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420		Indian	Fee	OW	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
LC TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

14-12D-45 BTR	12	040S	050W	4301351444		Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445		Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446		Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450		Indian	State	OW	APD
LC TRIBAL 16-34D-46	34	040S	060W	4301351451		Indian	State	OW	APD
16-12D-45 BTR	12	040S	050W	4301351452		Indian	Indian	OW	APD
8-12D-45 BTR	12	040S	050W	4301351453		Indian	Indian	OW	APD
LC TRIBAL 1-35D-46	35	040S	060W	4301351454		Indian	Fee	OW	APD
16-25D-37 BTR	25	030S	070W	4301351455		Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	28	040S	060W	4301351462		Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	030S	070W	4301351494		Indian	Fee	OW	APD
7-13D-45 BTR	13	040S	050W	4301351497		Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	040S	060W	4301351515		Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040S	060W	4301351543		Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598		Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030S	070W	4301351610		Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613		Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616		Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617		Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619		Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620		Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624		Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625		Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627		Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628		Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629		Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639		Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640		Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641		Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	080W	4301351643		Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644		Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	080W	4301351645		Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646		Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654		Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656		Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657		Indian	Fee	OW	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658		Indian	Fee	OW	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659		Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	040S	050W	4301351661		Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040S	060W	4301351663		Indian	Fee	OW	APD
3-29D-36 BTR	29	030S	060W	4301351665		Indian	Fee	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
LC Tribal 5-24D-46	24	040S	060W	4301351668	Indian	Indian	OW	APD
LC TRIBAL 6-12D-58	12	050S	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
LC TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	030S	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	030S	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	030S	050W	4301351806	Indian	Fee	OW	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	030S	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	030S	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
LC Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
LC Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	030S	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	030S	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	030S	060W	4301351872	Indian	Fee	OW	APD
8-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
LC Tribal 5-36D-46	36	040S	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	040S	050W	4301352001	Indian	Indian	OW	APD
LC Tribal 8-22D-45	22	040S	050W	4301352002	Indian	Indian	OW	APD
LC Tribal 8-25D-45	25	040S	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	030S	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	OW	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	040S	070W	4301352055	Indian	Indian	OW	APD
LC Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	OW	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	040S	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	040S	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	030S	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	030S	070W	4301352116	Indian	Fee	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
7-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
LC Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
LC Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
LC Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
LC Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
LC Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
15-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
13-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
BTR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
4-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	OW	APD
1-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
LC TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	OW	APD
LC Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
LC Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
LC Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
LC Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
LC Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
LC Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
LC Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
LC Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
LC Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
LC Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
LC Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
LC Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
LC Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
LC Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
LC Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
LC Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
LC Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
LC Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
LC Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
LC Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	OW	APD
LC Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
LC Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
LC Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
LC Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
LC Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
LC Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC Tribal 7-24D-46	24	040S	060W	4301353134		Indian	Indian	OW	APD
LC Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
LC Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
LC FEE 14-26D-47	26	040S	070W	4301353294		Fee	Indian	OW	APD
LC Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
LC Fee 1H-33-47	32	040S	070W	4301353309		Fee	Indian	OW	APD
LC FEE 14-2D-58	2	050S	080W	4301353312		Fee	Indian	OW	APD
LC FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
LC Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
16-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
LC Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
LC Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
LC Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
LC Fee 5-35D-47	35	040S	070W	4301353334		Fee	Indian	OW	APD
13-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
14-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
6-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
5-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
5-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
9-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
5-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
1-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
7-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
LC TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
7-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
LC TRIBAL 12H-28-46	28	040S	060W	4301333631	18132	Indian	Indian	GW	P
LC TRIBAL 13H-21-46	21	040S	060W	4301333632	18107	Indian	Indian	GW	P
12-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
5-5-46 BTR	5	040S	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	030S	060W	4301333642	16675	Indian	Fee	GW	P
14-29-36 BTR	29	030S	060W	4301333643	16725	Indian	Fee	OW	P
14-30-36 BTR	30	030S	060W	4301333644	16701	Indian	Fee	GW	P
7-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	P
LC TRIBAL 5-21D-46	21	040S	060W	4301333658	18887	Indian	Indian	OW	P
5-20-46 DLB	20	040S	060W	4301333659	18750	Indian	Indian	GW	P
LC TRIBAL 13H-20-46	20	040S	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	040S	060W	4301333806	16890	Indian	Indian	GW	P
7-8-45 BTR	8	040S	050W	4301333820	16974	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	P
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	OW	P
5-29-36 BTR	29	030S	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	P
5-25-36 BTR	25	030S	060W	4301334021	17126	Fee	Fee	OW	P
5-4-45 BTR	4	040S	050W	4301334089	17507	Indian	Indian	OW	P
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	OW	P
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	P
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	P
1-9-45 BTR	9	040S	050W	4301334101	17910	Indian	Indian	OW	P
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	OW	P
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	P
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	P
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	OW	P
6-12-46 BTR	12	040S	060W	4301334114	17964	Indian	Indian	OW	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	P
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	OW	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	P
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	OW	P
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	OW	P
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	OW	P
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	OW	P
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	P
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	P
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	P
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	P
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	P
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	P
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	P
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	P
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	P
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	P
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	P
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	P
7-26-37 BTR	26	030S	070W	4301350641	18131	Indian	Fee	OW	P
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	P
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	OW	P
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	P
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	P
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	P
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	P
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	P
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	P
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	OW	P
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	OW	P
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	P
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	P
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	P
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	P
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	P
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	P
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	OW	P
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	P
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	OW	P
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	P
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	OW	P
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	OW	P
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	P
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	P
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	P
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	P
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	P
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	P
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	P
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	P
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	P
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	P
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	P
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	040S	050W	4301351278	18627	Indian	Indian	OW	P
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	P
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	P
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	OW	P
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	OW	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	OW	P
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	OW	P
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	OW	P
11-8D-46 BTR	8	040S	060W	4301351336	19314	Indian	Indian	OW	P
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	OW	P
7-5-35 BTR	5	030S	050W	4301351599	19078	Indian	Fee	OW	P
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	OW	P
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	P
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	P
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	OW	P
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	P
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	OW	P
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	P
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	OW	P
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	P
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	OW	P
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	OW	P
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	OW	P
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	OW	P
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	OW	P
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	OW	P
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	030S	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030S	060W	4301334133	17834	Indian	Fee	OW	S
1-30-36 BTR	30	030S	060W	4301334134	17905	Indian	Fee	OW	S
16-30-36 BTR	30	030S	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	030S	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	030S	060W	4301334138	17666	Indian	Fee	OW	S

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	030S	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040S	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	OW	S
16-9-36 BTR	9	030S	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D-36	27	030S	060W	4301350917	18482	Indian	State	OW	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	OW	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD form changing the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

New Operator Contact information:

RIG II, LLC
1582 West 2600 South
Woods Cross, Utah 84087-0298
Telephone: (801) 683-4245
Fax: (801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

Bill Barrett Corporation

Brady Riley
Permit Analyst

RECEIVED
OCT 21 2016
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NUMBER:
(see attached well list)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
N/A

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:
(see attached well list)

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR:

RIG II, LLC N4055

3. ADDRESS OF OPERATOR:

1582 West 2600 South CITY Wood Cross STATE UT ZIP 84087

PHONE NUMBER:

(801) 683-4245

4. LOCATION OF WELL

FOOTAGES AT SURFACE: (see attached well list)

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit In Duplicate) Approximate date work will start: 11/1/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO RIG II, LLC BY BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW.

RIG II, LLC
1582 West 2600 South
Woods Cross, Utah 84087-0298
801-683-4245
(STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670)

BILL BARRETT CORPORATION N21165

RIG II, LLC

Duane Zavala NAME (PLEASE PRINT)

Jesse McSwain NAME (PLEASE PRINT)

Duane Zavala SIGNATURE
Senior Vice President -
EH&S, Government and Regulatory Affairs

Jesse McSwain SIGNATURE
Manager

NAME (PLEASE PRINT) Jesse McSwain

TITLE Manager

SIGNATURE

DATE

10/20/16

(This space for State use only)

APPROVED

NOV 07 2016

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

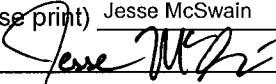
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	(See attached list)
API number:	
Location:	Qtr-Qtr: Section: Township: Range:
Company that filed original application:	Bill Barrett Corporation
Date original permit was issued:	
Company that permit was issued to:	Bill Barrett Corporation

Check one	Desired Action:
	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <small>9219529-UDOGM / UTB000712-BLM / LPM9224670-BIA</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Jesse McSwain Title Manager
Signature  Date 10/20/16
Representing (company name) RIG II, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

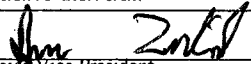
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

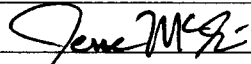
Well Name and Number 6-32-36 BTR SWD	API Number 4301350921
Location of Well Footage : 1628 FNL 1553 FWL County : DUCHENSE QQ, Section, Township, Range: SENW 32 3S 6W State : UTAH	Field or Unit Name CEDAR RIM Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

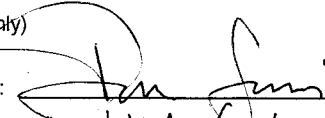
CURRENT OPERATOR

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadii</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President -</u>
Phone: <u>(303) 293-9100</u>	Title: <u>EH&S, Government and Regulatory Affairs</u>
Comments:	Date: <u>10/20/16</u>

NEW OPERATOR

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by: 
Title: UIC Geologist

Approval Date: 11/3/16

Comments:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

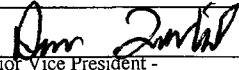
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

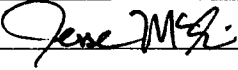
Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016


CURRENT OPERATOR

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadi</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President -</u>
Phone: <u>(303) 293-9100</u>	Title: <u>EH&S, Government and Regulatory Affairs</u>
Comments:	Date: <u>10/20/16</u>

NEW OPERATOR

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by: 
Title: VIC

Approval Date: 11/3/16

Comments:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

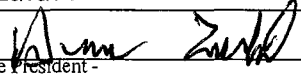
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

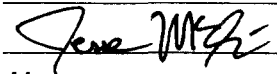
Well Name and Number SWD 9-36 BTR	API Number 4301350646
Location of Well Footage : 0539 FSL 0704 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 9 3S 6W State : UTAH	Field or Unit Name CEDAR RIM Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OPERATOR

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadi</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President - EH&S, Government and Regulatory Affairs</u>
Phone: <u>(303) 293-9100</u>	Date: <u>10/20/16</u>
Comments:	

NEW OPERATOR

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by: _____ Approval Date: _____

Title: _____

Comments:

*This well was approved by USEPA.
EPA approval will be required.*